Office	6 PM State of New Mexico	Form <i>E-103</i> of
<u>District I</u> – (575) 393-6161	Energy, Minerals and Natural Resources	Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283		WELL API NO. 30-015-53755
811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease
<u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE X FEE
<u>District IV</u> – (505) 476-3460	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		E101670008
	TICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
	OSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A JCATION FOR PERMIT" (FORM C-101) FOR SUCH	GREASEWOOD 5 STATE COM
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well Other	8. Well Number 105H
2 Name of Ownerstan	BACK OPERATING II, LLC	9. OGRID Number 330968
		10. Pool name or Wildcat
3. Address of Operator 19707 V	Vest IH 10, Suite 201 conio, TX 78257	PENASCO DRAW, SA-YESO (ASSOC)
4. Well Location	Onio, 1 <i>X</i> 76237	TEINISCO DIAW, SA TESO (ASSOC)
Unit Letter E	:1829'feet from theNORTH line and	370' feet from the WEST line
Section 4	Township 19S Range 25E	NMPM County EDDY
	11. Elevation (Show whether DR, RKB, RT, GR, et	
	3566'	
PERFORM REMEDIAL WORK TEMPORARILY ABANDON DULL OR ALTER CASING DOWNHOLE COMMINGLE CLOSED-LOOP SYSTEM OTHER: 13. Describe proposed or common of starting any proposed with proposed completion or results. Silverback Operating II,	PLUG AND ABANDON REMEDIAL WC COMMENCE D CASING/CEME MULTIPLE COMPL CASING/CEME OTHER: pleted operations. (Clearly state all pertinent details, a work). SEE RULE 19.15.7.14 NMAC. For Multiple Completion. LLC. has changed the well number and the target deputing permitted with well number 152H. However, the 2224'. Please see the new C-102 plat attached as well	P AND A TENT JOB and give pertinent dates, including estimated date Completions: Attach wellbore diagram of the of the subject well. SHL has not changed. the new well number is now 105H and the MD
Spud Date: I hereby certify that the information	Rig Release Date:	dge and belief.
SIGNATURE <u>Fatma Abdi</u>	allah TITLE_Regulatory Manager	_DATE08/25/2023
Type or print name <u>Fatma Abdalla</u> <u>For State Use Only</u>	<u>ah</u> E-mail address: <u>fabdallah@sil</u>	verbackexp.com PHONE: (210) 585-3316
APPROVED BY: Ward Rika Conditions of Approval (if any):	laTITLE Petroleum Specia	alist A DATE <u>9/29/2023</u>

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr. Santa Fe. NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbe	er	² Pool Code						
30-015-53755	i	50270	PENASCO DRAW, SA-YESO (ASSOC)					
⁴ Property Code 333974			operty Name	⁶ Well Number 105H				
⁷ OGRID No. 330968		8 O _I	perator Name OPERATING II, LLC	⁹ Elevation 3,566'				

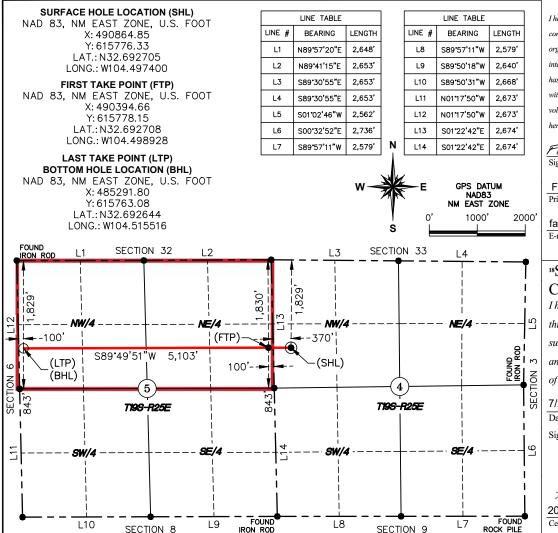
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
E	4	19-S	25-E		1,829'	NORTH	370'	WEST	EDDY	

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section 5	Township 19-S	Range 25-E	Lot Idn	Feet from the 1,829'	North/South line NORTH	Feet from the 100'	East/West line WEST	County EDDY
12 Dedicated Acres	E 5 19-S 25-E Dedicated Acres 13 Joint or Infill 14 Consolidation Code				der No.				
320									

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division



L8

SECTION 9

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

08/25/2023 Fatma Abdallah Signature Date

Fatma Abdallah Printed Name

fabdallah@silverbackexp.com

E-mail Address

18SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

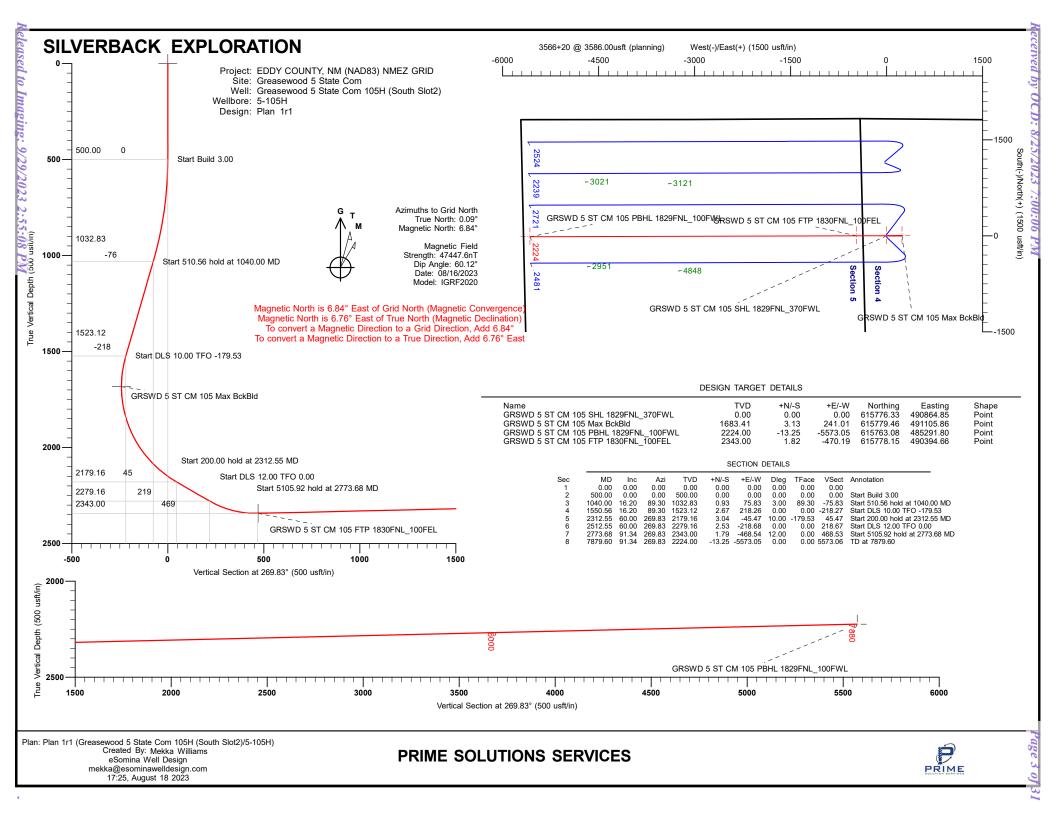
7/28/23

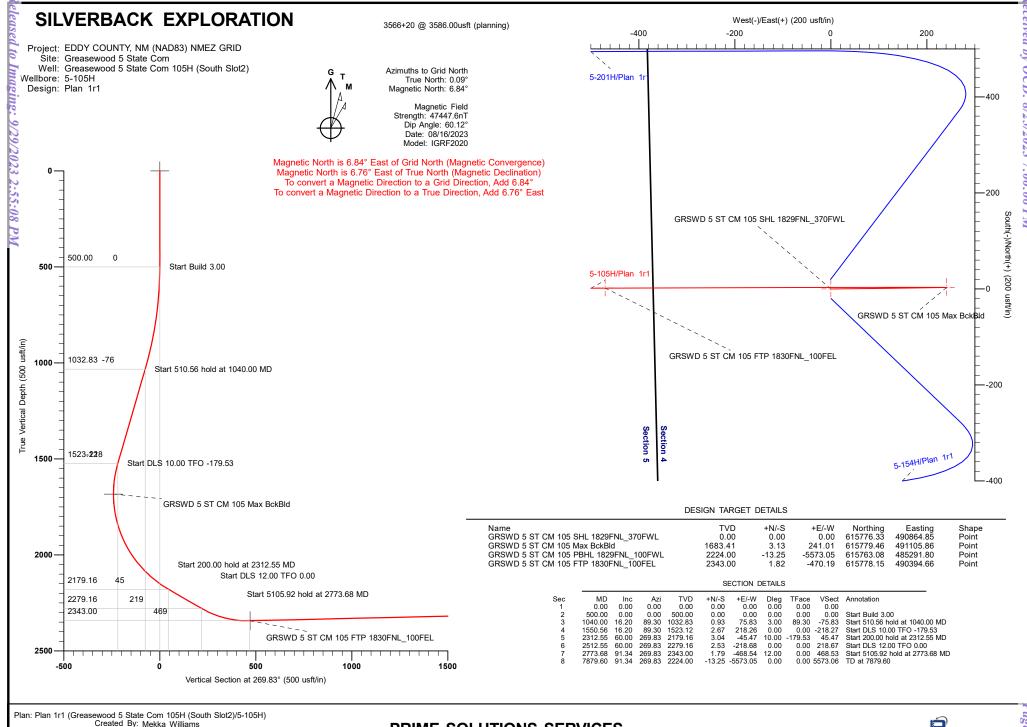
Date of Survey ssional MEvelyo Signature and Seal 20450 20450 S/ONAL Certificate Number

Released to Imaging: 9/29/2023 2:55:08 PM

SECTION 8

L10





Plan: Plan 1r1 (Greasewood 5 State Com 105H (South Slot2)/5-105h Created By: Mekka Williams eSomina Well Design mekka@esominawelldesign.com 17:37, August 18 2023





SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID Greasewood 5 State Com Greasewood 5 State Com 105H (South Slot2)

5-105H

Plan: Plan 1r1

Standard Planning Report

18 August, 2023

TVD Reference:

MD Reference:

PRIME_EDM Database:

Company: SILVERBACK EXPLORATION

Plan 1r1

Well Greasewood 5 State Com 105H (South

Project: EDDY COUNTY, NM (NAD83) NMEZ GRID Site:

Greasewood 5 State Com

Well: Greasewood 5 State Com 105H (South Slot2) Wellbore: 5-105H

Design:

North Reference: **Survey Calculation Method:**

Local Co-ordinate Reference:

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

Grid

Minimum Curvature

EDDY COUNTY, NM (NAD83) NMEZ GRID **Project**

Map System: US State Plane 1983 North American Datum 1983 Geo Datum: New Mexico Eastern Zone Map Zone:

System Datum:

Mean Sea Level

Greasewood 5 State Com Site

616,915.56 usft Northing: 32.6958362 Site Position: Latitude: 490,837.43 usft -104.4974948 Map From: Easting: Longitude: -0.09 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence: Position Uncertainty:**

Well Greasewood 5 State Com 105H (South Slot2)

Well Position +N/-S -1,139.23 usft 615,776.33 usft 32.6927050 Northing: Latitude: +E/-W 27.42 usft 490,864.85 usft -104.4973999 Easting: Longitude:

0.00 usft Ground Level: **Position Uncertainty** Wellhead Elevation: 3,566.00 usft

Wellbore 5-105H

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2020 08/16/23 6.76 60.12 47,447.63083529

Plan 1r1 Design Audit Notes: PLAN 0.00 Version: Phase: Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction

(usft) (usft) (usft) (°) 0.00 0.00 0.00 269.83

Plan Survey Tool Program 08/18/23

Depth From Depth To

(usft) (usft) Remarks Survey (Wellbore) **Tool Name**

0.00 7,878.88 Plan 1r1 (5-105H) MWD

OWSG MWD - Standard

Plan Sections Measured Vertical Dogleg Build Turn +N/-S Inclination Azimuth Depth +E/-W Rate Depth Rate Rate **TFO** (usft) (°/100usft) (°/100usft) (°) (°) (usft) (usft) (usft) (°/100usft) Target (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 500.00 0.00 0.00 500.00 0.00 0.00 0.00 0.00 0.00 0.00 1.040.00 16.20 89.30 1,032.83 0.93 75.83 3.00 3.00 0.00 89.30 1,550.56 16.20 89.30 1,523.12 2.67 218.26 0.00 0.00 0.00 0.00 2,312.55 60.00 269.83 2,179.16 3.04 -45.47 10.00 5.75 -23.55 -179.53 2,512.55 60.00 269.83 2,279.16 2.53 -218.68 0.00 0.00 0.00 0.00 269.83 2,773.68 91.34 2,343.00 1.79 -468.54 12.00 12.00 0.00 0.00 0.00 GRSWD 5 ST CM 10! 7.879.60 91.34 269.83 2.224.00 -13.25 -5.573.05 0.00 0.00 0.00

Database: PRIME_EDM

Company: SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID

Site: Greasewood 5 State Com

Well: Greasewood 5 State Com 105H (South Slot2)

Wellbore: 5-105H
Design: Plan 1r1

Project:

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Greasewood 5 State Com 105H (South

Slot2)

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

Grid

Minimum Curvature

d Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build									
600.00	3.00	89.30	599.95	0.03	2.62	-2.62	3.00	3.00	0.00
700.00	6.00	89.30	699.63	0.13	10.46	-10.46	3.00	3.00	0.00
800.00	9.00	89.30	798.77	0.29	23.51	-23.51	3.00	3.00	0.00
900.00	12.00	89.30	897.08	0.51	41.73	-41.73	3.00	3.00	0.00
1,000.00	15.00	89.30	994.31	0.80	65.07	-65.07	3.00	3.00	0.00
1,040.00	16.20	89.30	1,032.83	0.93	75.83	-75.83	3.00	3.00	0.00
	6 hold at 1040.00								
1,100.00	16.20	89.30	1,090.45	1.13	92.57	-92.57	0.00	0.00	0.00
1,200.00	16.20	89.30	1,186.48	1.47	120.46	-120.47	0.00	0.00	0.00
1,300.00	16.20	89.30	1,282.51	1.81	148.36	-148.36	0.00	0.00	0.00
1,400.00	16.20	89.30	1,378.54	2.15	176.26	-176.26	0.00	0.00	0.00
1,500.00	16.20	89.30	1,474.57	2.49	204.15	-204.16	0.00	0.00	0.00
1,550.56	16.20	89.30	1,523.12	2.67	218.26	-218.27	0.00	0.00	0.00
	0.00 TFO -179.53								
1,600.00	11.26	89.09	1,571.13	2.83	229.99	-229.99	10.00	-10.00	-0.42
1,650.00	6.26	88.55	1,620.54	2.97	237.59	-237.60	10.00	-10.00	-1.08
1,700.00	1.26	83.76	1,670.41	3.10	240.87	-240.88	10.00	-9.99	-9.58
1,750.00	3.75	271.77	1,720.38	3.21	239.78	-239.79	10.00	4.97	-343.98
1,800.00	8.75	270.61	1,770.07	3.30	234.34	-234.35	10.00	10.00	-2.31
1,850.00	13.75	270.29	1,819.10	3.38	224.60	-224.61	10.00	10.00	-0.64
1,900.00	18.74	270.14	1,867.08	3.43	210.61	-210.62	10.00	10.00	-0.30
1,950.00	23.74	270.05	1,913.67	3.45	192.50	-192.51	10.00	10.00	-0.18
2,000.00	28.74	269.99	1,958.50	3.46	170.40	-170.41	10.00	10.00	-0.12
2,050.00	33.74	269.95	2,001.24	3.45	144.47	-144.48	10.00	10.00	-0.09
2,100.00	38.74	269.92	2,041.55	3.42	114.92	-114.93	10.00	10.00	-0.07
2,150.00	43.74	269.89	2,079.13	3.36	81.97	-81.98	10.00	10.00	-0.05
2,200.00	48.74	269.87	2,113.70	3.29	45.86	-45.87	10.00	10.00	-0.04
2,250.00	53.74	269.85	2,144.99	3.19	6.89	-6.89	10.00	10.00	-0.04
2,300.00	58.74	269.83	2,172.76	3.08	-34.67	34.66	10.00	10.00	-0.03
2,312.55	60.00	269.83	2,179.16	3.04	-45.47	45.47	10.00	10.00	-0.03
) hold at 2312.55		2 222 00	0.00	104.00	101.00	0.00	0.00	0.00
2,400.00	60.00	269.83	2,222.88	2.82	-121.20	121.20	0.00	0.00	0.00
2,500.00	60.00	269.83	2,272.88	2.56	-207.81	207.80	0.00	0.00	0.00
2,512.55	60.00	269.83	2,279.16	2.53	-218.68	218.67	0.00	0.00	0.00
	2.00 TFO 0.00	200.00	0.005.04	0.50	200.54	200 50	40.00	40.00	0.00
2,525.00	61.49	269.83	2,285.24	2.50	-229.54	229.53	12.00	12.00	0.00
2,550.00 2,575.00	64.49 67.40	269.83	2,296.59 2,306.76	2.43 2.36	-251.81	251.80 274.64	12.00	12.00 12.00	0.00
	67.49	269.83			-274.64		12.00		0.00
2,600.00	70.49	269.83	2,315.72	2.29	-297.98	297.97	12.00	12.00	0.00
2,625.00	73.49	269.83	2,323.45	2.22	-321.75	321.74	12.00	12.00	0.00
2,650.00	76.49	269.83	2,329.92	2.15	-345.90	345.89	12.00	12.00	0.00
2,675.00	79.49	269.83	2,335.12 2,339.04	2.08	-370.35	370.34	12.00	12.00	0.00
2,700.00	82.49	269.83	*	2.01	-395.04	395.03	12.00	12.00	0.00
2,725.00	85.49	269.83	2,341.65	1.93	-419.90	419.89	12.00	12.00	0.00
2,750.00	88.49	269.83	2,342.96	1.86	-444.86	444.85	12.00	12.00	0.00

Database: PRIME_EDM

Company: SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID

Site: Greasewood 5 State Com

Well: Greasewood 5 State Com 105H (South Slot2)

Wellbore: 5-105H

Design: Plan 1r1

Project:

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Greasewood 5 State Com 105H (South

Slot2)

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

Grid

Minimum Curvature

Design:	Plan 1r1								
Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
2,773.68	91.34	269.83	2,343.00	1.79	-468.54	468.53	12.00	12.00	0.00
Start 5105.	92 hold at 2773.6	8 MD							
2,800.00	91.34	269.83	2,342.39	1.71	-494.85	494.84	0.00	0.00	0.00
2,900.00	91.34	269.83	2,340.05	1.42	-594.82	594.81	0.00	0.00	0.00
3,000.00	91.34	269.83	2,337.72	1.12	-694.79	694.79	0.00	0.00	0.00
3,100.00	91.34	269.83	2,335.39	0.83	-794.77	794.76	0.00	0.00	0.00
3,200.00	91.34	269.83	2,333.06	0.54	-894.74	894.73	0.00	0.00	0.00
3,300.00	91.34	269.83	2,330.73	0.24	-994.71	994.71	0.00	0.00	0.00
3,400.00	91.34	269.83	2,328.40	-0.05	-1,094.68	1,094.68	0.00	0.00	0.00
3,500.00	91.34	269.83	2,326.07	-0.35	-1,194.66	1,194.65	0.00	0.00	0.00
3,600.00		269.83	2,323.74	-0.64	-1,294.63	1,294.62	0.00	0.00	0.00
3,700.00		269.83	2,321.41	-0.94	-1,394.60	1,394.60	0.00	0.00	0.00
3,800.00		269.83	2,319.08	-1.23	-1,494.57	1,494.57	0.00	0.00	0.00
3,900.00		269.83	2,316.75	-1.53	-1,594.54	1,594.54	0.00	0.00	0.00
4,000.00		269.83	2,314.42	-1.82	-1,694.52	1,694.52	0.00	0.00	0.00
4,000.00		269.83	2,314.42	-1.82 -2.12	-1,694.52 -1,794.49	1,094.52	0.00	0.00	0.00
4,200.00		269.83	2,309.76	-2.12 -2.41	-1,794.49	1.894.46	0.00	0.00	0.00
4,300.00		269.83	2,307.43	-2.71	-1,994.43	1,994.43	0.00	0.00	0.00
4,400.00		269.83	2,305.10	-3.00	-2,094.41	2,094.41	0.00	0.00	0.00
4,500.00		269.83	2,302.77	-3.29	-2,194.38	2,194.38	0.00	0.00	0.00
4,600.00		269.83 269.83	2,300.43 2,298.10	-3.59 -3.88	-2,294.35 -2.394.32	2,294.35	0.00 0.00	0.00 0.00	0.00
4,700.00		269.83	2,295.77	-3.00 -4.18	,	2,394.32	0.00	0.00	0.00 0.00
4,800.00 4,900.00		269.83	2,293.77	-4.10 -4.47	-2,494.30 -2,594.27	2,494.30 2,594.27	0.00	0.00	0.00
5,000.00		269.83	2,291.11	-4.77	-2,694.24	2,694.24	0.00	0.00	0.00
5,100.00		269.83	2,288.78	-5.06	-2,794.21	2,794.22	0.00	0.00	0.00
5,200.00		269.83	2,286.45	-5.36	-2,894.19	2,894.19	0.00	0.00	0.00
5,300.00		269.83	2,284.12	-5.65	-2,994.16	2,994.16	0.00	0.00	0.00
5,400.00	91.34	269.83	2,281.79	-5.95	-3,094.13	3,094.13	0.00	0.00	0.00
5,500.00		269.83	2,279.46	-6.24	-3,194.10	3,194.11	0.00	0.00	0.00
5,600.00	91.34	269.83	2,277.13	-6.53	-3,294.08	3,294.08	0.00	0.00	0.00
5,700.00		269.83	2,274.80	-6.83	-3,394.05	3,394.05	0.00	0.00	0.00
5,800.00		269.83	2,272.47	-7.12	-3,494.02	3,494.03	0.00	0.00	0.00
5,900.00	91.34	269.83	2,270.14	-7.42	-3,593.99	3,594.00	0.00	0.00	0.00
6,000.00	91.34	269.83	2,267.81	-7.71	-3,693.97	3,693.97	0.00	0.00	0.00
6,100.00		269.83	2,265.48	-8.01	-3,793.94	3,793.94	0.00	0.00	0.00
6,200.00	91.34	269.83	2,263.14	-8.30	-3,893.91	3,893.92	0.00	0.00	0.00
6,300.00	91.34	269.83	2,260.81	-8.60	-3,993.88	3,993.89	0.00	0.00	0.00
6,400.00	91.34	269.83	2,258.48	-8.89	-4,093.85	4,093.86	0.00	0.00	0.00
6,500.00	91.34	269.83	2,256.15	-9.19	-4,193.83	4,193.84	0.00	0.00	0.00
6,600.00		269.83	2,253.82	-9.48	-4,293.80	4,293.81	0.00	0.00	0.00
6,700.00		269.83	2,251.49	-9.78	-4,393.77	4,393.78	0.00	0.00	0.00
6,800.00		269.83	2,249.16	-10.07	-4,493.74	4,493.75	0.00	0.00	0.00
6,900.00		269.83	2,246.83	-10.36	-4,593.72	4,593.73	0.00	0.00	0.00
7,000.00		269.83 269.83	2,244.50 2,242.17	-10.66 10.05	-4,693.69 4 703.66	4,693.70	0.00	0.00	0.00
7,100.00 7,200.00		269.83	2,242.17 2,239.84	-10.95 -11.25	-4,793.66 -4,893.63	4,793.67 4,893.65	0.00 0.00	0.00 0.00	0.00 0.00
7,200.00		269.83	2,239.64 2,237.51	-11.25 -11.54	-4,093.63 -4,993.61	4,093.63	0.00	0.00	0.00
7,400.00		269.83	2,237.51	-11.84	-5,093.58	5,093.59	0.00	0.00	0.00
7,500.00		269.83	2,232.85	-12.13	-5,193.55	5,193.56	0.00	0.00	0.00
7,600.00		269.83	2,230.52	-12.43	-5,293.52	5,293.54	0.00	0.00	0.00
7,700.00		269.83	2,228.19	-12.72	-5,393.50	5,393.51	0.00	0.00	0.00
7,800.00	91.34	269.83	2,225.86	-13.02	-5,493.47	5,493.48	0.00	0.00	0.00

PRIME_EDM Database:

Company: SILVERBACK EXPLORATION Local Co-ordinate Reference: Well Greasewood 5 State Com 105H (South

EDDY COUNTY, NM (NAD83) NMEZ GRID Project:

TVD Reference: 3566+20 @ 3586.00usft (planning) MD Reference: 3566+20 @ 3586.00usft (planning)

Site: Greasewood 5 State Com North Reference: Grid

Well: Greasewood 5 State Com 105H (South Slot2)

Survey Calculation Method:

Minimum Curvature

Wellbore: Design:

5-105H Plan 1r1

Planned Survey									
Measured Depth (usft)	Inclination	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,879.60 TD at 7879.6 0	91.34	269.83	2,224.00	-13.25	-5,573.05	5,573.06	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
GRSWD 5 ST CM 105 S - plan hits target cer - Point		360.00	0.00	0.00	0.00	615,776.33	490,864.85	32.6927050	-104.4973999
GRSWD 5 ST CM 105 M - plan misses target - Point		360.00 Iusft at 1713	1,683.41 .00usft MD (3.13 1683.41 TVD,	241.01 3.13 N, 241.0	615,779.46 01 E)	491,105.86	32.6927146	-104.4966165
GRSWD 5 ST CM 105 F - plan hits target cer - Point		0.00	2,224.00	-13.25	-5,573.05	615,763.08	485,291.80	32.6926435	-104.5155156
GRSWD 5 ST CM 105 F - plan misses target - Point		360.00 5usft at 2775	2,343.00 .33usft MD (1.82 2342.96 TVD,	-470.19 1.79 N, -470.	615,778.15 19 E)	490,394.66	32.6927080	-104.4989284

Plan Annotations				
Measured	Vertical	Local Coord	dinates	
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	Comment
500.00	500.00	0.00	0.00	Start Build 3.00
1,040.00	1,032.83	0.93	75.83	Start 510.56 hold at 1040.00 MD
1,550.56	1,523.12	2.67	218.26	Start DLS 10.00 TFO -179.53
2,312.55	2,179.16	3.04	-45.47	Start 200.00 hold at 2312.55 MD
2,512.55	2,279.16	2.53	-218.68	Start DLS 12.00 TFO 0.00
2,773.68	2,343.00	1.79	-468.54	Start 5105.92 hold at 2773.68 MD
7,879.60	2,224.00	-13.25	-5,573.05	TD at 7879.60

SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID Greasewood 5 State Com Greasewood 5 State Com 105H (South Slot2)

5-105H Plan 1r1

Anticollision Report

18 August, 2023

Company: SILVERBACK EXPLORATION **Local Co-ordinate Reference:** Well Greasewood 5 State Com 105H (South

3566+20 @ 3586.00usft (planning)

EDDY COUNTY, NM (NAD83) NMEZ GRID Project: **TVD Reference:**

3566+20 @ 3586.00usft (planning) Greasewood 5 State Com MD Reference: Reference Site:

0.00 usft Site Error: North Reference: Reference Well: Greasewood 5 State Com 105H (South Slot2) Minimum Curvature **Survey Calculation Method:**

Well Error: 0.00 usft Output errors are at 2.00 sigma Reference Wellbore 5-105H PRIME_EDM Database: Plan 1r1 Reference Datum Reference Design: Offset TVD Reference:

Reference Plan 1r1

NO GLOBAL FILTER: Using user defined selection & filtering criteria Filter type:

ISCWSA Interpolation Method: Stations Error Model:

Unlimited Closest Approach 3D Depth Range: Scan Method: Maximum ellipse separation of 0.00 usft Pedal Curve Error Surface:

Results Limited by: Not applied Warning Levels Evaluated at: 2.00 Sigma Casing Method:

Survey Tool Program 08/18/23 Date

> То From

(usft) (usft) Survey (Wellbore) **Tool Name** Description

MWD 0.00 7,878.88 Plan 1r1 (5-105H) OWSG MWD - Standard

mmary	Reference	Offset	Dista	nco		
Site Name Offset Well - Wellbore - Design	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)	Separatio n	Warning
Greasewood 5 State Com						
Greasewood 5 State Com 104H (North Slot2) - 5-104H -	5,229.48	5,212.38	986.03	836.28	6.584	CC
Greasewood 5 State Com 104H (North Slot2) - 5-104H -	7,879.60	7,862.48	986.11	707.60	3.541	ES, SF
Greasewood 5 State Com 153H (North Slot1) - 5-153H -						Out of range
Greasewood 5 State Com 154H (South Slot3) - 5-154H -	500.00	500.00	20.00	16.07	5.090	CC, ES
Greasewood 5 State Com 154H (South Slot3) - 5-154H -	7,879.60	8,209.41	486.51	243.81	2.005	SF
Greasewood 5 State Com 201H (South Slot1) - 5-201H -	500.00	500.00	20.00	16.07	5.091	CC, ES
Greasewood 5 State Com 201H (South Slot1) - 5-201H -	7,879.60	8,415.96	700.10	493.91	3.395	SF
Greasewood BD State 1 (Offset) PA - GW BD ST 1 - GW	5,500.00	2,308.50	540.98	408.75	4.091	SF
Greasewood BD State 1 (Offset) PA - GW BD ST 1 - GW	5,553.27	2,307.26	538.36	407.54	4.115	CC, ES
Greasewood BD State 10 (Offset) Active - GW BD ST 1	5,707.07	2,303.70	826.92	689.34	6.010	CC, ES
Greasewood BD State 10 (Offset) Active - GW BD ST 1	5,800.00	2,301.54	832.13	690.58	5.879	SF
Greasewood BD State 8 (Offset) PA - GW BD ST 8 - GW	6,900.00	2,275.99	473.48	268.07	2.305	SF
Greasewood BD State 8 (Offset) PA - GW BD ST 8 - GW	6,978.02	2,274.18	467.01	267.03	2.335	CC, ES
Greasewood BD State 9 (Offset) PA - GW BD ST 9 - GW	7,006.26	2,276.07	855.57	683.39	4.969	CC, ES
Greasewood BD State 9 (Offset) PA - GW BD ST 9 - GW	7,100.00	2,273.82	860.69	685.16	4.903	SF

Offset Des	sign	Grease	wood 5 St	ate Com - (Greasewo	od 5 State	Com 104H (No	rth Slot2) -	5-104H - F	Plan 1r1			Offset Site Error:	0.00 usft
Survey Progr Refere		WD Offse	et	Semi Major	Axis				Dista	ınce			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
1,950.00	1,913.67	2,016.43	1,960.92	12.24	12.92	88.32	999.72	140.81	998.72	979.39	19.32	51.680		
2,000.00	1,958.50	2,056.65	1,994.88	12.58	13.17	88.44	997.18	119.43	995.69	976.22	19.47	51.141		
2,050.00	2,001.24	2,100.00	2,029.73	12.88	13.41	88.52	994.82	93.77	993.07	973.40	19.66	50.500		
2,100.00	2,041.55	2,136.64	2,057.62	13.15	13.60	88.62	993.12	70.09	990.85	970.98	19.87	49.861		
2,150.00	2,079.13	2,176.47	2,086.19	13.39	13.80	88.70	991.60	42.37	989.06	968.88	20.17	49.026		
2,200.00	2,113.70	2,216.25	2,112.74	13.59	13.98	88.78	990.43	12.79	987.70	967.13	20.57	48.016		
2,250.00	2,144.99	2,256.00	2,137.19	13.76	14.16	88.85	989.61	-18.53	986.78	965.70	21.08	46.812		
2,300.00	2,172.76	2,300.00	2,161.67	13.90	14.35	88.92	989.11	-55.07	986.31	964.53	21.78	45.283		
2,312.55	2,179.16	2,305.73	2,164.65	13.92	14.37	88.93	989.08	-59.97	986.25	964.34	21.91	45.018		
2,347.03	2,196.40	2,337.45	2,180.60	13.95	14.47	88.94	988.99	-87.38	986.23	963.67	22.56	43.713		
2,400.00	2,222.88	2,390.41	2,207.08	14.00	14.64	88.94	988.85	-133.26	986.23	962.58	23.66	41.689		

TVD Reference:

MD Reference:

Company: SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID Project:

Greasewood 5 State Com Reference Site:

0.00 usft Site Error:

Reference Well: Greasewood 5 State Com 105H (South Slot2)

Well Error: 0.00 usft 5-105H Reference Wellbore Reference Design: Plan 1r1

Local Co-ordinate Reference:

Well Greasewood 5 State Com 105H (South

Slot2)

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

North Reference: **Survey Calculation Method:**

Output errors are at Database:

Offset TVD Reference:

Minimum Curvature 2.00 sigma

Offset Des	_		vood 5 St	tate Com - (Greasewo	ood 5 State (Com 104H (No	orth Slot2) -	5-104H - F	Plan 1r1			Offset Site Error:	0.00 us
Survey Progr Refere		WD Offse	t	Semi Major	Axis				Dista	ance			Offset Well Error:	0.00 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,500.00	2,272.88	2,490.41	2,257.08	14.17	15.13	88.94	988.59	-219.86	986.23	960.09	26.14	37.731		
2,512.55	2,279.16	2,502.97	2,263.36	14.21	15.20	88.94	988.56	-230.73	986.23	959.77	26.47	37.264		
2,525.00	2,285.24	2,515.41	2,269.58	14.25	15.28	88.95	988.53	-241.51	986.23	959.43	26.80	36.797		
2,550.00	2,296.59	2,539.55	2,281.16	14.37	15.46	88.99	988.47	-262.68	986.22	958.73	27.49	35.873		
2,575.00	2,306.76	2,563.68	2,291.65	14.54	15.66	89.04	988.40	-284.40	986.20	957.98	28.22	34.948		
2,600.00	2,315.72	2,587.84	2,301.05	14.77	15.89	89.08	988.34	-306.66	986.19	957.21	28.98	34.025		
2,625.00	2,323.45	2,612.05	2,309.33	15.07	16.14	89.13	988.27	-329.41	986.18	956.39	29.79	33.110		
2,650.00	2,329.92	2,636.30	2,316.45	15.43	16.42	89.19	988.20	-352.59	986.16	955.54	30.62	32.207		
2,675.00	2,335.12	2,660.59	2,322.39	15.83	16.72	89.24	988.13	-376.14	986.15	954.67	31.48	31.324		
2,700.00	2,339.04	2,684.93	2,327.14	16.26	17.05	89.30	988.06	-400.01	986.14	953.77	32.37	30.463		
2,725.00	2,341.65	2,709.32	2,330.67	16.71	17.41	89.36	987.99	-424.14	986.13	952.84	33.28	29.630		
2,750.00	2,342.96	2,733.76	2,332.96	17.17	17.78	89.42	987.92	-448.46	986.11	951.90	34.21	28.826		
2,773.68	2,343.00	2,756.96	2,333.99	17.61	18.16	89.48	987.85	-471.64	986.10	951.00	35.10	28.094		
2,800.00	2,342.39	2,782.93	2,333.86	18.12	18.59	89.50	987.77	-497.61	986.10	949.99	36.11	27.309		
2,900.00	2,340.05	2,882.93	2,332.00	20.13	20.41	89.53	987.48	-597.59	986.09	945.96	40.13	24.569		
3,000.00	2,337.72	2,982.93	2,330.14	22.25	22.39	89.56	987.18	-697.57	986.09	941.75	44.34	22.238		
3,100.00	2,335.39	3,082.93	2,328.28	24.43	24.48	89.59	986.88	-797.55	986.08	937.40	48.68	20.255		
3,200.00	2,333.06	3,182.93	2,326.42	26.66	26.64	89.61	986.59	-897.53	986.08	932.95	53.13	18.561		
3,300.00	2,330.73	3,282.92	2,324.56	28.93	28.85	89.64	986.29	-997.51	986.07	928.43	57.64	17.106		
3,400.00	2,328.40	3,382.92	2,322.70	31.23	31.11	89.67	986.00	-1,097.50	986.07	923.85	62.22	15.848		
3,500.00	2,326.07	3,482.92	2,320.84	33.55	33.40	89.70	985.70	-1,197.48	986.07	919.22	66.85	14.751		
3,600.00	2,323.74	3,582.92	2,318.98	35.89	35.71	89.72	985.40	-1,297.46	986.06	914.55	71.51	13.789		
3,700.00	2,321.41	3,682.92	2,317.12	38.24	38.04	89.75	985.11	-1,397.44	986.06	909.86	76.20	12.940		
3,800.00	2,319.08	3,782.92	2,315.26	40.60	40.38	89.78	984.81	-1,497.42	986.06	905.13	80.92	12.185		
3,900.00	2,316.75	3,882.92	2,313.40	42.98	42.74	89.81	984.52	-1,597.40	986.05	900.39	85.67	11.510		
4,000.00	2,314.42	3,982.92	2,311.54	45.36	45.11	89.83	984.22	-1,697.38	986.05	895.62	90.43	10.904		
4,100.00	2,312.09	4,082.92	2,309.68	47.75	47.49	89.86	983.92	-1,797.36	986.05	890.85	95.20	10.357		
4,200.00	2,309.76	4,182.91	2,307.82	50.15	49.88	89.89	983.63	-1,897.34	986.04	886.05	99.99	9.861		
4,300.00	2,307.43	4,282.91	2,305.95	52.56	52.27	89.91	983.33	-1,997.33	986.04	881.25	104.79	9.410		
4,400.00	2,305.10	4,382.91	2,304.09	54.96	54.67	89.94	983.04	-2,097.31	986.04	876.44	109.60	8.997		
4,500.00	2,302.77	4,482.91	2,302.23	57.37	57.08	89.97	982.74	-2,197.29	986.04	871.62	114.42	8.618		
4,600.00	2,300.43	4,582.91	2,300.37	59.79	59.48	90.00	982.44	-2,297.27	986.04	866.79	119.25	8.269		
4,700.00	2,298.10	4,682.91	2,298.51	62.21	61.90	90.02	982.15	-2,397.25	986.04	861.96	124.08	7.947		
4,800.00	2,295.77	4,782.91	2,296.65	64.63	64.31	90.05	981.85	-2,497.23	986.03	857.12	128.92	7.649		
4,900.00	2,293.44	4,882.91	2,294.79	67.05	66.73	90.08	981.56	-2,597.21	986.03	852.27	133.76	7.372		
5,000.00	2,291.11	4,982.91	2,292.93	69.48	69.15	90.11	981.26	-2,697.19	986.03	847.42	138.61	7.114		
5,100.00	2,288.78	5,082.90	2,291.07	71.91	71.58	90.13	980.96	-2,797.18	986.03	842.57	143.46	6.873		
5,200.00	2,286.45	5,182.90	2,289.21	74.34	74.00	90.16	980.67	-2,897.16	986.03	837.71	148.32	6.648	_	
5,229.48	2,285.76	5,212.38	2,288.66	75.05	74.72	90.17	980.58	-2,926.63	986.03	836.28	149.75	6.584 C	С	
5,300.00	2,284.12	5,282.90	2,287.35	76.77	76.43	90.19	980.37	-2,997.14	986.03	832.85	153.18	6.437		
5,400.00	2,281.79	5,382.90	2,285.49	79.20	78.86	90.22	980.08	-3,097.12	986.03	827.99	158.04	6.239		
5,500.00	2,279.46	5,482.90	2,283.63	81.64	81.29	90.24	979.78	-3,197.10	986.03	823.12	162.91	6.053		
5,600.00	2,277.13	5,582.90	2,281.77	84.07	83.72	90.27	979.48	-3,297.08	986.03	818.26	167.78	5.877		
5,700.00	2,274.80	5,682.90	2,279.91	86.51	86.16	90.30	979.19	-3,397.06	986.04	813.39	172.65	5.711		
5,800.00	2,272.47	5,782.90	2,278.05	88.95	88.59	90.32	978.89	-3,497.04	986.04	808.51	177.52	5.554		
5,900.00	2,270.14	5,882.90	2,276.19	91.39	91.03	90.35	978.60	-3,597.02	986.04	803.64	182.40	5.406		
6,000.00	2,267.81	5,982.89	2,274.33	93.83	93.47	90.38	978.30	-3,697.01	986.04	798.76	187.27	5.265		
6,100.00	2,265.48	6,082.89	2,272.47	96.27	95.91	90.41	978.00	-3,796.99	986.04	793.89	192.15	5.132		
6,200.00	2,263.14	6,182.89	2,270.61	98.71	98.35	90.43	977.71	-3,896.97	986.04	789.01	197.03	5.004		
6,300.00	2,260.81	6,282.89	2,268.74	101.15	100.79	90.46	977.41	-3,996.95	986.05	784.13	201.91	4.883		
6,400.00	2,258.48	6,382.89	2,266.88	103.59	103.23	90.49	977.12	-4,096.93	986.05	779.25	206.80	4.768		

TVD Reference:

MD Reference:

Company: SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID Project:

Greasewood 5 State Com Reference Site:

0.00 usft Site Error:

Reference Well: Greasewood 5 State Com 105H (South Slot2)

Well Error: 0.00 usft 5-105H Reference Wellbore Reference Design: Plan 1r1

Local Co-ordinate Reference:

Well Greasewood 5 State Com 105H (South

Slot2)

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

North Reference: **Survey Calculation Method:**

Output errors are at

Database:

Offset TVD Reference:

Minimum Curvature

2.00 sigma PRIME_EDM Reference Datum

Offset De	sign	Grease	wood 5 St	ate Com - 0	Greasewo	od 5 State (Com 104H (No	orth Slot2) -	5-104H - F	Plan 1r1			Offset Site Error:	0.00 usft
Survey Progr													Offset Well Error:	0.00 usft
Refer		Offse		Semi Major					Dista					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
6,500.00	2,256.15	6,482.89	2,265.02	106.03	105.67	90.52	976.82	-4,196.91	986.05	774.37	211.68	4.658		
6,600.00	2,253.82	6,582.89	2,263.16	108.48	108.11	90.54	976.52	-4,296.89	986.05	769.49	216.57	4.553		
6,700.00	2,251.49	6,682.89	2,261.30	110.92	110.55	90.57	976.23	-4,396.87	986.06	764.60	221.45	4.453		
6,800.00	2,249.16	6,782.89	2,259.44	113.37	113.00	90.60	975.93	-4,496.85	986.06	759.72	226.34	4.357		
6,900.00	2,246.83	6,882.88	2,257.58	115.81	115.44	90.62	975.64	-4,596.84	986.06	754.84	231.23	4.264		
7,000.00	2,244.50	6,982.88	2,255.72	118.26	117.89	90.65	975.34	-4,696.82	986.07	749.95	236.12	4.176		
7,100.00	2,242.17	7,082.88	2,253.86	120.70	120.33	90.68	975.04	-4,796.80	986.07	745.07	241.01	4.091		
7,200.00	2,239.84	7,182.88	2,252.00	123.15	122.78	90.71	974.75	-4,896.78	986.08	740.18	245.90	4.010		
7,300.00	2,237.51	7,282.88	2,250.14	125.60	125.22	90.73	974.45	-4,996.76	986.08	735.29	250.79	3.932		
7,400.00	2,235.18	7,382.88	2,248.28	128.04	127.67	90.76	974.16	-5,096.74	986.09	730.41	255.68	3.857		
7,500.00	2,232.85	7,482.88	2,246.42	130.49	130.11	90.79	973.86	-5,196.72	986.09	725.52	260.57	3.784		
7,600.00	2,230.52	7,582.88	2,244.56	132.94	132.56	90.82	973.56	-5,296.70	986.10	720.63	265.46	3.715		
7,700.00	2,228.19	7,682.88	2,242.70	135.39	135.01	90.84	973.27	-5,396.69	986.10	715.74	270.36	3.647		
7,800.00	2,225.86	7,782.87	2,240.84	137.84	137.46	90.87	972.97	-5,496.67	986.11	710.86	275.25	3.583		
7,879.60	2,224.00	7,862.48	2,239.36	139.15	139.41	90.89	972.74	-5,576.25	986.11	707.60	278.51	3.541 ES	, SF	

TVD Reference:

MD Reference:

North Reference:

Company: SILVERBACK EXPLORATION

Project: EDDY COUNTY, NM (NAD83) NMEZ GRID

Reference Site: Greasewood 5 State Com

Site Error: 0.00 usft

Reference Well: Greasewood 5 State Com 105H (South Slot2)

Well Error: 0.00 usft
Reference Wellbore 5-105H
Reference Design: Plan 1r1

Local Co-ordinate Reference:

Well Greasewood 5 State Com 105H (South

Slot2)

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Database: PRIME_

Offset TVD Reference:

Offset Des	fset Design Greasewood 5 State Com - Greasewood 5 State Com 154H (South Slot3) - 5-154H - Plan 1r1									Offset Site Error:	0.00 usft			
Survey Progr	ram: 0-M	WD											Offset Well Error:	0.00 usft
Refere		Offse		Semi Major		III-bata	0#	. 0	Dista			0		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	178.62	-19.99	0.48	20.00					
100.00	100.00	100.00	100.00	0.31	0.31	178.62	-19.99	0.48	20.00	19.52	0.47	42.326		
200.00	200.00	200.00	200.00	0.95	0.95	178.62	-19.99	0.48	20.00	18.49	1.50	13.291		
300.00	300.00	300.00	300.00	1.46	1.46	178.62	-19.99	0.48	20.00	17.63	2.36	8.455		
400.00 500.00	400.00 500.00	400.00 500.00	400.00 500.00	1.89 2.31	1.89 2.33	178.62 178.62	-19.99 -19.99	0.48 0.48	20.00 20.00	16.84 16.07	3.15 3.93	6.339 5.090 C0	: FS	
000.00	000.00	000.00	000.00	2.01	2.00	170.02	-10.00	0.40	20.00	10.07	0.00	0.000 00	5, 20	
600.00	599.95	599.29	599.25	3.13	2.61	92.00	-21.53	2.09	21.58	16.84	4.74	4.548		
700.00	699.63	698.32	698.00	4.80	4.32	96.83	-26.61	7.40	26.96	20.60	6.35	4.242		
800.00 900.00	798.77	796.92 894.88	795.81 892.22	6.09 7.16	5.71 6.82	101.24 104.36	-35.16 -47.11	16.36	36.29 49.57	28.77	7.52 8.52	4.827		
1,000.00	897.08 994.31	992.00	986.80	8.10	7.77	104.36	-62.31	28.86 44.76	66.71	41.04 57.21	9.50	5.815 7.021		
1,000.00	004.01	332.00	300.00	0.10		100.00	-02.01	44.70	00.7 1	07.21	0.00	7.021		
1,040.00	1,032.83	1,030.57	1,024.03	8.22	8.11	106.88	-69.26	52.04	74.63	64.74	9.89	7.545		
1,100.00	1,090.45	1,088.15	1,079.22	8.33	8.61	107.30	-80.61	63.91	87.34	76.85	10.49	8.325		
1,200.00 1,300.00	1,186.48 1,282.51	1,183.31 1,277.06	1,169.26	8.52	9.36 10.09	105.92	-101.86	86.15 111.20	110.23	98.63 122.59	11.60 12.87	9.500 10.526		
1,400.00	1,378.54	1,371.92	1,256.36 1,343.14	8.73 8.95	10.09	103.22 100.24	-125.80 -152.27	138.91	135.46 162.77	148.66	14.12	11.529		
1,400.00	1,070.04	1,071.02	1,040.14	0.50	10.00	100.24	102.27	100.01	102.77	140.00	14.12	11.020		
1,500.00	1,474.57	1,467.78	1,430.74	9.18	10.79	98.02	-179.16	167.04	190.51	175.28	15.24	12.505		
1,550.56	1,523.12	1,516.24	1,475.03	9.30	10.89	97.14	-192.75	181.26	204.62	188.85	15.77	12.978		
1,600.00	1,571.13	1,563.52	1,518.24	9.52	10.99	97.41	-206.01	195.14	218.23	201.93	16.30	13.388		
1,650.00 1,700.00	1,620.54 1,670.41	1,610.85 1,657.36	1,561.50 1,604.01	10.03 10.53	11.10 11.21	97.09 100.31	-219.28 -232.33	209.03 222.68	231.73 245.29	214.88 227.88	16.85 17.41	13.749 14.086		
1,700.00	1,070.41	1,007.30	1,004.01	10.55	11.21	100.31	-232.33	222.00	245.29	221.00	17.41	14.000		
1,750.00	1,720.38	1,702.68	1,645.42	10.63	11.32	-89.76	-245.04	235.98	259.35	240.71	18.64	13.915		
1,800.00	1,770.07	1,746.47	1,685.44	11.04	11.43	-90.92	-257.32	248.83	274.40	254.65	19.75	13.891		
1,850.00	1,819.10	1,788.39	1,723.75	11.47	11.54	-92.98	-269.07	261.13	290.95	270.70	20.25	14.365		
1,900.00	1,867.08	1,830.38	1,762.16	11.87	11.65	-95.30	-280.84	273.34	309.44	288.66	20.77	14.895		
1,950.00	1,913.67	1,880.42	1,808.82	12.24	11.85	-98.15	-294.67	284.95	329.27	307.75	21.52	15.303		
2,000.00	1,958.50	1,934.38	1,860.20	12.58	12.09	-100.85	-309.15	292.72	349.79	327.52	22.27	15.707		
2,050.00	2,001.24	1,993.16	1,916.90	12.88	12.25	-103.46	-324.28	295.48	370.57	347.71	22.86	16.214		
2,100.00	2,041.55	2,057.84	1,979.49	13.15	12.43	-106.01	-339.97	291.63	391.14	367.70	23.44	16.686		
2,150.00	2,079.13	2,129.70	2,048.34	13.39	12.85	-108.52	-355.98	278.94	410.94	386.86	24.09	17.061		
2,200.00	2,113.70	2,210.14	2,123.25	13.59	13.45	-111.00	-371.84	254.50	429.35	404.75	24.60	17.453		
2,250.00	2,144.99	2,300.47	2,202.87	13.76	14.11	-113.41	-386.68	214.73	445.59	420.68	24.91	17.891		
2,300.00	2,172.76	2,401.45	2,283.95	13.90	14.78	-115.65	-399.11	156.05	458.79	433.80	24.99	18.360		
2,312.55	2,179.16	2,428.47	2,303.91	13.92	14.95	-116.18	-401.64	138.01	461.52	436.55	24.97	18.486		
2,400.00	2,222.88	2,614.01	2,416.80	14.00	16.03	-118.49	-409.49	-8.03	469.48	444.42	25.06	18.732		
2,500.00	2,272.88	2,714.01	2,466.80	14.17	16.64	-118.49	-409.75	-94.63	469.48	442.41	27.07	17.342		
2,512.55	2,279.16	2,726.56	2,473.07	14.21	16.72	-118.49	-409.78	-105.50	469.48	442.15	27.33	17.180		
2,525.00	2,285.24	2,739.01	2,479.29	14.25	16.81	-118.49	-409.81	-116.28	469.56	441.97	27.58	17.023		
2,550.00	2,296.59	2,763.97	2,491.78	14.37	16.98	-118.57	-409.88	-137.90	470.18	442.08	28.11	16.729		
2,575.00	2,306.76	2,788.83	2,504.21	14.54	17.16	-118.71	-409.94	-159.43	471.44	442.80	28.63	16.465		
2,600.00	2,315.72	2,821.93	2,520.43	14.77	17.42	-119.05	-410.03	-188.27	473.23	444.13	29.10	16.261		
2,625.00	2,323.45	2,863.72	2,538.63	15.07	17.81	-119.47	-410.14	-225.88	474.91	445.35	29.55	16.069		
2,650.00	2,329.92	2,906.01	2,554.21	15.43	18.26	-119.83	-410.25	-265.18	476.34	446.25	30.09	15.831		
2,675.00	2,335.12	2,948.73	2,566.97	15.83	18.78	-120.13	-410.38	-305.94	477.52	446.81	30.71	15.551		
2,700.00	2,339.04	2,991.80	2,576.72	16.26	19.35	-120.35	-410.50	-347.88	478.42	447.03	31.39	15.241		
2,725.00	2,341.65	3,035.12	2,583.32	16.71	19.97	-120.51	-410.63	-390.68	479.03	446.89	32.14	14.904		
2 750 00	2,342.96	3 070 50	2 506 60	17.17	20.64	_120 E0	-410.76	-434.02	479.34	446.39	32.96	14.545		
2,750.00 2,773.68	2,342.96	3,078.59 3,116.95	2,586.68 2,586.92	17.17	21.26	-120.58 -120.59	-410.76 -410.88	-434.02 -472.37	479.34	445.63	32.96	14.203		
2,800.00	2,342.39	3,110.93	2,586.37	18.12	21.70	-120.59	-410.86	-472.57	479.42	444.80	34.62	13.849		
2,900.00	2,340.05	3,243.27	2,584.29	20.13	23.48	-120.62	-411.26	-598.66	479.55	441.54	38.01	12.617		
3,000.00	2,337.72	3,343.27	2,582.21	22.25	25.39	-120.65	-411.56	-698.63	479.68	438.11	41.58	11.537		
							rgent point. SE							

TVD Reference:

MD Reference:

North Reference:

Company: SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID Project:

Greasewood 5 State Com Reference Site:

0.00 usft Site Error:

Reference Well: Greasewood 5 State Com 105H (South Slot2)

Well Error: 0.00 usft 5-105H Reference Wellbore Plan 1r1 Reference Design:

Local Co-ordinate Reference:

Well Greasewood 5 State Com 105H (South

Slot2)

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

Survey Calculation Method: Minimum Curvature

Output errors are at Database:

Offset TVD Reference:

2.00 sigma

Offset Design Greasewood 5 State Com - Greasewood 5 State Com 154H (South Slot3) - 5-154H - Plan 1r1									Offset Site Error:	0.00 usft				
Survey Prog													Offset Well Error:	0.00 usft
Refer		Offse		Semi Major					Dista					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
3,100.00	2,335.39	3,443.26	2,580.13	24.43	27.39	-120.68	-411.86	-798.61	479.82	434.55	45.27	10.599		
3,200.00	2,333.06	3,543.26	2,578.05	26.66	29.47	-120.70	-412.16	-898.59	479.95	430.89	49.06	9.783		
3,300.00	2,330.73	3,643.26	2,575.97	28.93	31.61	-120.73	-412.46	-998.57	480.08	427.16	52.92	9.071		
3,400.00	2,328.40	3,743.26	2,573.89	31.23	33.79	-120.75	-412.76	-1,098.55	480.22	423.37	56.85	8.447		
3,500.00	2,326.07	3,843.26	2,571.81	33.55	36.02	-120.78	-413.07	-1,198.52	480.35	419.53	60.82	7.898		
3,600.00	2,323.74	3,943.26	2,569.73	35.89	38.27	-120.80	-413.37	-1,298.50	480.49	415.66	64.83	7.412		
3,700.00	2,321.41	4,043.26	2,567.65	38.24	40.55	-120.83	-413.67	-1,398.48	480.62	411.75	68.87	6.979		
3,800.00	2,319.08	4,143.26	2,565.57	40.60	42.85	-120.85	-413.97	-1,498.46	480.76	407.82	72.94	6.591		
3,900.00	2,316.75	4,243.26	2,563.49	42.98	45.16	-120.88	-414.27	-1,598.43	480.89	403.86	77.03	6.243		
4,000.00	2,314.42	4,343.26	2,561.41	45.36	47.49	-120.90	-414.57	-1,698.41	481.02	399.89	81.13	5.929		
4,100.00	2,312.09	4,443.26	2,559.33	47.75	49.83	-120.93	-414.88	-1,798.39	481.16	395.91	85.25	5.644		
4,200.00	2,309.76	4,543.26	2,557.25	50.15	52.19	-120.95	-415.18	-1,898.37	481.29	391.91	89.39	5.384		
4,300.00	2,307.43	4,643.26	2,555.17	52.56	54.55	-120.98	-415.48	-1,998.34	481.43	387.90	93.53	5.147		
4,400.00	2,305.10	4,743.26	2,553.09	54.96	56.92	-121.00	-415.78	-2,098.32	481.56	383.88	97.69	4.930		
4,500.00	2,302.77	4,843.26	2,551.01	57.37	59.30	-121.03	-416.08	-2,198.30	481.70	379.85	101.85	4.730		
4,600.00	2,300.43	4,943.26	2,548.93	59.79	61.68	-121.05	-416.38	-2,298.28	481.83	375.82	106.02	4.545		
4,700.00	2,298.10	5,043.26	2,546.85	62.21	64.07	-121.08	-416.68	-2,398.25	481.97	371.78	110.19	4.374		
4,800.00	2,295.77	5,143.26	2,544.77	64.63	66.47	-121.10	-416.99	-2,498.23	482.11	367.74	114.37	4.215		
4,900.00	2,293.44	5,243.26	2,542.69	67.05	68.87	-121.13	-417.29	-2,598.21	482.24	363.69	118.55	4.068		
5,000.00	2,291.11	5,343.26	2,540.61	69.48	71.27	-121.15	-417.59	-2,698.19	482.38	359.64	122.74	3.930		
5,100.00	2,288.78	5,443.26	2,538.53	71.91	73.68	-121.18	-417.89	-2,798.16	482.51	355.59	126.93	3.801		
5,200.00	2,286.45	5,543.26	2,536.45	74.34	76.09	-121.20	-418.19	-2,898.14	482.65	351.53	131.12	3.681		
5,300.00	2,284.12	5,643.26	2,534.37	76.77	78.50	-121.23	-418.49	-2,998.12	482.78	347.47	135.31	3.568		
5,400.00	2,281.79	5,743.26	2,532.29	79.20	80.91	-121.25	-418.79	-3,098.10	482.92	343.41	139.51	3.462		
5,500.00	2,279.46	5,843.26	2,530.21	81.64	83.33	-121.28	-419.10	-3,198.07	483.06	339.35	143.70	3.361		
5,600.00	2,277.13	5,943.26	2,528.13	84.07	85.75	-121.30	-419.40	-3,298.05	483.19	335.29	147.90	3.267		
5,700.00	2,274.80	6,043.26	2,526.05	86.51	88.17	-121.33	-419.70	-3,398.03	483.33	331.23	152.10	3.178		
5,800.00	2,272.47	6,143.26	2,523.97	88.95	90.60	-121.35	-420.00	-3,498.01	483.46	327.17	156.30	3.093		
5,900.00	2,270.14	6,243.26	2,521.89	91.39	93.02	-121.38	-420.30	-3,597.99	483.60	323.10	160.50	3.013		
6,000.00	2,267.81	6,343.26	2,519.81	93.83	95.45	-121.40	-420.60	-3,697.96	483.74	319.04	164.70	2.937		
6,100.00	2,265.48	6,443.26	2,517.73	96.27	97.88	-121.43	-420.91	-3,797.94	483.87	314.98	168.90	2.865		
6,200.00	2,263.14	6,543.26	2,515.65	98.71	100.31	-121.45	-421.21	-3,897.92	484.01	310.91	173.10	2.796		
6,300.00	2,260.81	6,643.25	2,513.57	101.15	102.74	-121.48	-421.51	-3,997.90	484.15	306.85	177.30	2.731		
6,400.00	2,258.48	6,743.25	2,511.49	103.59	105.17	-121.50	-421.81	-4,097.87	484.28	302.79	181.50	2.668		
6,500.00	2,256.15	6,843.25	2,509.41	106.03	107.61	-121.53	-422.11	-4,197.85	484.42	298.73	185.70	2.609		
6,600.00	2,253.82	6,943.25	2,507.33	108.48	110.04	-121.55	-422.41	-4,297.83	484.56	294.67	189.89	2.552		
6,700.00	2,251.49	7,043.25	2,505.25	110.92	112.48	-121.58	-422.71	-4,397.81	484.70	290.60	194.09	2.497		
6,800.00	2,249.16	7,143.25	2,503.17	113.37	114.91	-121.60	-423.02	-4,497.78	484.83	286.55	198.29	2.445		
6,900.00	2,246.83	7,243.25	2,501.09	115.81	117.35	-121.63	-423.32	-4,597.76	484.97	282.49	202.48	2.395		
7,000.00	2,244.50	7,343.25	2,499.01	118.26	119.79	-121.65	-423.62	-4,697.74	485.11	278.43	206.68	2.347		
7,100.00	2,242.17	7,443.25	2,496.94	120.70	122.23	-121.68	-423.92	-4,797.72	485.25	274.37	210.87	2.301		
7,200.00	2,239.84	7,543.25	2,494.86	123.15	124.66	-121.70	-424.22	-4,897.69	485.38	270.32	215.07	2.257		
7,300.00	2,237.51	7,643.25	2,492.78	125.60	127.10	-121.73	-424.52	-4,997.67	485.52	266.26	219.26	2.214		
7,400.00	2,235.18	7,743.25	2,490.70	128.04	129.55	-121.75	-424.82	-5,097.65	485.66	262.21	223.45	2.173		
7,500.00	2,232.85	7,843.25	2,488.62	130.49	131.99	-121.78	-425.13	-5,197.63	485.80	258.16	227.64	2.134		
7,600.00	2,230.52	7,943.25	2,486.54	132.94	134.43	-121.80	-425.43	-5,297.60	485.93	254.11	231.83	2.096		
7,700.00	2,228.19	8,043.25	2,484.46	135.39	136.87	-121.83	-425.73	-5,397.58	486.07	250.06	236.01	2.060		
7,800.00	2,225.86	8,143.25	2,482.38	137.84	139.31	-121.85	-426.03	-5,497.56	486.21	246.01	240.20	2.024		
7,800.66	2,225.84	8,143.91	2,482.36	137.85	139.33	-121.85	-426.03	-5,498.22	486.21	245.99	240.22	2.024		
7,879.60	2,224.00	8,209.41	2,481.00	139.15	140.93	-121.87	-426.23	-5,563.70	486.51	243.81	242.70	2.005 SI	=	

TVD Reference:

MD Reference:

Company: SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID Project:

Greasewood 5 State Com Reference Site:

0.00 usft Site Error:

Reference Well: Greasewood 5 State Com 105H (South Slot2)

Well Error: 0.00 usft 5-105H Reference Wellbore Reference Design: Plan 1r1

Local Co-ordinate Reference:

Well Greasewood 5 State Com 105H (South

Slot2)

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

North Reference: **Survey Calculation Method:** Minimum Curvature 2.00 sigma

Output errors are at Database:

Offset TVD Reference:

Offset De	_		wood 5 St	ate Com -	Greasewo	ood 5 State (Com 201H (So	outh Slot1)	- 5-201H - I	Plan 1r1			Offset Site Error:	0.00 usft
Survey Prog Refer		Offse	et	Semi Major	r Axis				Dista	ance			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-1.40	19.99	-0.49	20.00	(,	(,			
100.00	100.00	100.00	100.00	0.00	0.31	-1.40	19.99	-0.49	20.00	19.52	0.47	42.341		
200.00	200.00	200.00	200.00	0.95	0.95	-1.40	19.99	-0.49	20.00	18.49	1.50	13.295		
300.00	300.00	300.00	300.00	1.46	1.46	-1.40	19.99	-0.49	20.00	17.63	2.36	8.457		
400.00	400.00	400.00	400.00	1.89	1.89	-1.40	19.99	-0.49	20.00	16.84	3.15	6.340		
500.00	500.00	500.00	500.00	2.31	2.33	-1.40	19.99	-0.49	20.00	16.07	3.93	5.091 (CC, ES	
600.00	599.95	599.21	599.17	3.13	3.24	-93.81	21.76	0.86	21.81	17.05	4.76	4.579		
700.00	699.63	698.07	697.76	4.80	4.84	-99.50	27.59	5.30	28.00	21.99	6.01	4.658		
800.00	798.77	796.36	795.26	6.09	6.11	-104.48	37.39	12.77	38.79	31.62	7.17	5.413		
900.00	897.08	893.78	891.14	7.16	7.16	-107.83	51.04	23.16	54.16	45.88	8.28	6.543		
1,000.00	994.31	990.06	984.92	8.10	8.07	-109.87	68.33	36.33	73.99	64.63	9.36	7.902		
1,040.00	1,032.83	1,028.20	1,021.75	8.22	8.40	110.40	76.21	42.34	83.14	73.43	9.71	8.566		
1,100.00	1,032.65	1,026.20	1,021.73	8.33	8.87	-110.42 -110.95	89.05	52.12	97.81	87.61	10.20	9.594		
1,200.00	1,186.48	1,178.82	1,165.05	8.52	9.60	-109.99	113.02	70.38	124.14	113.08	11.06	11.224		
1,300.00	1,282.51	1,273.01	1,252.87	8.73	9.91	-108.01	140.09	91.00	152.61	140.68	11.93	12.793		
1,400.00	1,378.54	1,368.65	1,341.86	8.95	10.09	-106.48	167.97	112.24	181.49	168.66	12.83	14.142		
1,500.00	1,474.57	1,464.29	1,430.85	9.18	10.29	-105.37	195.86	133.48	210.46	196.70	13.77	15.288		
1,550.56	1,523.12	1,512.65	1,475.84	9.30	10.39	-104.92	209.95	144.22	225.13	210.90	14.23	15.819		
1,600.00	1,571.13	1,559.97	1,519.87	9.52	10.50	-105.20	223.75	154.73	238.95	224.25	14.70	16.256		
1,650.00	1,620.54	1,607.67	1,564.25	10.03	10.61	-104.19	237.66	165.33	251.93	236.76	15.17	16.611		
1,700.00	1,670.41	1,654.84	1,608.14	10.53	10.73	-98.14	251.41	175.80	264.13	248.55	15.59	16.946		
1,750.00	1,720.38	1,701.13	1,651.20	10.63	10.84	75.72	264.90	186.08	275.95	259.41	16.54	16.679		
1,800.00	1,770.07	1,746.18	1,693.12	11.04	10.96	79.18	278.04	196.09	287.86	270.17	17.69	16.277		
1,850.00	1,819.10	1,789.65	1,733.56	11.47	11.07	82.06	290.71	205.74	300.39	282.36	18.03	16.658		
1,900.00	1,867.08	1,831.20	1,772.23	11.87	11.18	84.84	302.83	214.97	314.10	295.73	18.37	17.099		
1,950.00	1,913.67	1,870.54	1,808.82	12.24	11.29	87.44	314.29	223.71	329.52	310.81	18.71	17.608		
2,000.00	1,958.50	1,907.34	1,843.07	12.58	11.40	89.72	325.02	231.88	347.14	328.05	19.09	18.183		
2,050.00	2,001.24	1,941.34	1,874.70	12.88	11.49	91.54	334.93	239.43	367.30	347.79	19.52	18.821		
2,100.00	2,041.55	1,972.27	1,903.48	13.15	11.58	92.77	343.95	246.30	390.24	370.25	19.99	19.522		
2,150.00	2,079.13	1,999.91	1,929.19	13.39	11.67	93.28	352.01	252.44	416.05	395.54	20.51	20.286		
2,200.00	2,113.70	2,024.03	1,951.64	13.59	11.74	92.97	359.04	257.80	444.68	423.63	21.05	21.122		
2,250.00	2,144.99	2,044.46	1,970.64	13.76	11.80	91.75	365.00	262.34	475.98	454.38	21.60	22.033		
2,300.00	2,172.76	2,061.03	1,986.07	13.90	11.85	89.52	369.83	266.02	509.69	487.54	22.14	23.018		
2,312.55	2,179.16	2,064.62	1,989.40	13.92	11.86	88.81	370.87	266.81	518.49	496.22	22.27	23.277		
2,400.00	2,222.88	2,188.73	2,107.41	14.00	12.71	104.23	405.64	281.26	581.01	556.57	24.44	23.777		
2,500.00	2,272.88	2,809.05	2,610.49	14.17	15.71	128.34	496.09	-14.36	628.47	605.66	22.80	27.559		
2,512.55	2,279.16	2,821.60	2,616.76	14.21	15.76	128.34	496.06	-25.23	628.47	605.44	23.02	27.296		
2,525.00	2,285.24	2,834.05	2,622.99	14.25	15.82	128.34	496.03	-36.00	628.57	605.32	23.24	27.043		
2,550.00	2,296.59	2,859.01	2,635.47	14.37	15.95	128.36	495.96	-57.62	629.38	605.69	23.69	26.565		
2,575.00 2,600.00	2,306.76 2,315.72	2,883.87 2,908.56	2,647.90 2,660.24	14.54 14.77	16.08 16.24	128.39 128.43	495.90 495.84	-79.15 -100.53	631.00 633.45	606.86 608.84	24.14 24.61	26.134 25.743		
2,625.00	2,323.45	2,933.01	2,672.47	15.07	16.41	128.48	495.77	-121.71	636.73	611.64	25.09	25.382		
2,650.00	2,329.92	2,957.16	2,684.54	15.43	16.59	128.54	495.71	-142.62	640.84	615.29	25.55	25.079		
2,675.00 2,700.00	2,335.12 2,339.04	2,980.93	2,696.43	15.83	16.78	128.58	495.65	-163.21 -183.42	645.80 651.62	619.79	26.00	24.834		
2,700.00	2,339.04	3,004.27 3,091.79	2,708.10 2,746.23	16.26 16.71	16.97 17.88	128.62 130.15	495.59 495.36	-183.42 -262.10	651.62 657.30	625.18 630.63	26.44 26.67	24.646 24.646		
2,750.00	2,342.96	3,194.94	2,775.19	17.17	19.24	131.38	495.07	-360.95	661.14	633.75	27.39	24.134		
2,773.68	2,343.00	3,297.95	2,785.98	17.61	20.85	131.93	494.76	-463.26	662.79	634.23	28.56	23.209		
2,800.00	2,342.39	3,336.64	2,785.71	18.12	21.51	131.97	494.65	-501.94	663.01	633.60	29.41	22.545		
2,900.00	2,340.05	3,436.63	2,784.44	20.13	23.30 25.20	132.03	494.36	-601.93 -701.91	663.71 664.42	631.32 628.91	32.39	20.488		
3,000.00	2,337.72	3,536.62	2,783.17	22.25	25.20	132.10	494.06	-701.91	004.42	020.91	35.52	18.707		

TVD Reference:

MD Reference:

North Reference:

Company: SILVERBACK EXPLORATION

Project: EDDY COUNTY, NM (NAD83) NMEZ GRID

Reference Site: Greasewood 5 State Com

Site Error: 0.00 usft

Reference Well: Greasewood 5 State Com 105H (South Slot2)

Well Error: 0.00 usft
Reference Wellbore 5-105H
Reference Design: Plan 1r1

Local Co-ordinate Reference:

Well Greasewood 5 State Com 105H (South

Slot2)

PRIME_EDM

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Database:

Offset TVD Reference: Refere

Reference Datum

Offset Design Greasewood 5 State Com - Greasewood 5 State Com 201H (South Slot1) - 5-201H - Plan 1r1 Survey Program: 0-MWD									Offset Site Error: Offset Well Error:	0.00 usft 0.00 usft				
Refere		Offs	et	Semi Major	Axis				Dista	ance				0.00 0010
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
3,100.00	2,335.39	3,636.62	2,781.89	24.43	27.20	132.17	493.77	-801.90	665.13	626.38	38.75	17.165		
3,200.00	2,333.06	3,736.61	2,780.62	26.66	29.27	132.24	493.48	-901.88	665.84	623.78	42.06	15.830		
3,300.00	2,330.73	3,836.61	2,779.35	28.93	31.40	132.30	493.18	-1,001.87	666.56	621.12	45.44	14.670		
3,400.00	2,328.40	3,936.60	2,778.07	31.23	33.57	132.37	492.89	-1,101.86	667.27	618.41	48.86	13.657		
3,500.00	2,326.07	4,036.60	2,776.80	33.55	35.78	132.44	492.59	-1,201.84	667.98	615.66	52.32	12.768		
3,600.00	2,323.74	4,136.59	2,775.53	35.89	38.02	132.51	492.30	-1,301.83	668.70	612.89	55.81	11.982		
3,700.00	2,321.41	4,236.59	2,774.26	38.24	40.28	132.57	492.01	-1,401.81	669.41	610.10	59.32	11.285		
3,800.00	2,319.08	4,336.58	2,772.98	40.60	42.57	132.64	491.71	-1,501.80	670.13	607.29	62.85	10.663		
3,900.00	2,316.75	4,436.57	2,771.71	42.98	44.88	132.70	491.42	-1,601.79	670.85	604.46	66.39	10.105		
4,000.00	2,314.42	4,536.57	2,770.44	45.36	47.20	132.77	491.13	-1,701.77	671.57	601.63	69.94	9.602		
4,100.00	2,312.09	4,636.56	2,769.16	47.75	49.53	132.84	490.83	-1,801.76	672.29	598.79	73.50	9.147		
4,200.00	2,309.76	4,736.56	2,767.89	50.15	51.88	132.90	490.54	-1,901.74	673.01	595.94	77.07	8.733		
4,300.00	2,307.43	4,836.55	2,766.62	52.56	54.23	132.97	490.24	-2,001.73	673.73	593.09	80.64	8.355		
4,400.00	2,305.10	4,936.55	2,765.34	54.96	56.60	133.03	489.95	-2,101.72	674.45	590.24	84.21	8.009		
4,500.00	2,302.77	5,036.54	2,764.07	57.37	58.97	133.10	489.66	-2,201.70	675.17	587.39	87.78	7.691		
4,600.00	2,300.43	5,136.53	2,762.80	59.79	61.35	133.17	489.36	-2,301.69	675.90	584.54	91.36	7.398		
4,700.00	2,298.10	5,236.53	2,761.52	62.21	63.73	133.23	489.07	-2,401.67	676.62	581.69	94.93	7.127		
4,800.00	2,295.77	5,336.52	2,760.25	64.63	66.12	133.30	488.78	-2,501.66	677.35	578.84	98.51	6.876		
4,900.00	2,293.44	5,436.52	2,758.98	67.05	68.51	133.36	488.48	-2,601.64	678.07	575.99	102.08	6.642		
5,000.00	2,291.11	5,536.51	2,757.70	69.48	70.91	133.43	488.19	-2,701.63	678.80	573.15	105.65	6.425		
5,100.00	2,288.78	5,636.51	2,756.43	71.91	73.31	133.49	487.89	-2,801.62	679.53	570.30	109.22	6.221		
5,200.00	2,286.45	5,736.50	2,755.16	74.34	75.72	133.56	487.60	-2,901.60	680.26	567.47	112.79	6.031		
5,300.00	2,284.12	5,836.50	2,753.89	76.77	78.13	133.62	487.31	-3,001.59	680.99	564.63	116.35	5.853		
5,400.00	2,281.79	5,936.49	2,752.61	79.20	80.54	133.68	487.01	-3,101.57	681.72	561.80	119.91	5.685		
5,500.00	2,279.46	6,036.48	2,751.34	81.64	82.96	133.75	486.72	-3,201.56	682.45	558.98	123.47	5.527		
5,600.00	2,277.13	6,136.48	2,750.07	84.07	85.37	133.81	486.43	-3,301.55	683.18	556.16	127.02	5.379		
5,700.00	2,274.80	6,236.47	2,748.79	86.51	87.79	133.88	486.13	-3,401.53	683.91	553.35	130.57	5.238		
5,800.00	2,272.47	6,336.47	2,747.52	88.95	90.21	133.94	485.84	-3,501.52	684.65	550.54	134.11	5.105		
5,900.00	2,270.14	6,436.46	2,746.25	91.39	92.63	134.00	485.54	-3,601.50	685.38	547.73	137.65	4.979		
6,000.00	2,267.81	6,536.46	2,744.97	93.83	95.06	134.07	485.25	-3,701.49	686.12	544.93	141.19	4.860		
6,100.00	2,265.48	6,636.45	2,743.70	96.27	97.49	134.13	484.96	-3,801.48	686.85	542.14	144.72	4.746		
6,200.00	2,263.14	6,736.45	2,742.43	98.71	99.91	134.19	484.66	-3,901.46	687.59	539.35	148.24	4.638		
6,300.00	2,260.81	6,836.44	2,741.15	101.15	102.34	134.26	484.37	-4,001.45	688.33	536.57	151.76	4.536		
6,400.00	2,258.48	6,936.43	2,739.88	103.59	104.77	134.32	484.08	-4,101.43	689.07	533.79	155.28	4.438		
6,500.00	2,256.15	7,036.43	2,738.61	106.03	107.20	134.38	483.78	-4,201.42	689.81	531.02	158.79	4.344		
6,600.00	2,253.82	7,136.42	2,737.33	108.48	109.64	134.44	483.49	-4,301.40	690.55	528.26	162.30	4.255		
6,700.00	2,251.49	7,236.42	2,736.06	110.92	112.07	134.51	483.19	-4,401.39	691.29	525.50	165.80	4.170		
6,800.00	2,249.16	7,336.41	2,734.79	113.37	114.50	134.57	482.90	-4,501.38	692.03	522.74	169.29	4.088		
6,900.00	2,246.83	7,436.41	2,733.51	115.81	116.94	134.63	482.61	-4,601.36	692.78	520.00	172.78	4.010		
7,000.00	2,244.50	7,536.40	2,732.24	118.26	119.38	134.69	482.31	-4,701.35	693.52	517.26	176.26	3.935		
7,100.00	2,242.17	7,636.40	2,730.97	120.70	121.81	134.76	482.02	-4,801.33	694.27	514.52	179.74	3.863		
7,200.00	2,239.84	7,736.39	2,729.70	123.15	124.25	134.82	481.73	-4,901.32	695.01	511.79	183.22	3.793		
7,300.00	2,237.51	7,836.38	2,728.42	125.60	126.69	134.88	481.43	-5,001.31	695.76	509.07	186.69	3.727		
7,400.00	2,235.18	7,936.38	2,727.15	128.04	129.13	134.94	481.14	-5,101.29	696.51	506.36	190.15	3.663		
7,500.00	2,232.85	8,036.37	2,725.88	130.49	131.57	135.00	480.84	-5,201.28	697.25	503.65	193.61	3.601		
7,600.00	2,230.52	8,136.37	2,724.60	132.94	134.01	135.06	480.55	-5,301.26	698.00	500.95	197.06	3.542		
7,700.00	2,228.19	8,236.36	2,723.33	135.39	136.45	135.13	480.26	-5,401.25	698.75	498.25	200.50	3.485		
7,700.00	2,225.19	8,336.36	2,723.33	137.84	138.89	135.13	479.96	-5,501.23	699.50	495.56	203.94	3.430		
	2,224.00								700.10			3.430 3.395 S	:=	
7,879.60	2,224.00	8,415.96	2,721.04	139.15	140.84	135.23	479.73	-5,580.83	700.10	493.91	206.19	ა.აყე ბ	"	

TVD Reference:

MD Reference:

Company: SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID Project:

Greasewood 5 State Com Reference Site:

0.00 usft Site Error:

Reference Well: Greasewood 5 State Com 105H (South Slot2)

Well Error: 0.00 usft 5-105H Reference Wellbore Reference Design: Plan 1r1

Local Co-ordinate Reference:

Well Greasewood 5 State Com 105H (South

Slot2)

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

North Reference: **Survey Calculation Method:** Minimum Curvature 2.00 sigma

Output errors are at Database:

Offset TVD Reference:

PRIME_EDM

Reference Datum

Offset De	_		wood 5 St	ate Com - (Greasewo	ood BD State	e 1 (Offset) PA	- GW BD S	ST 1 - GW	BD ST 1 A	AsDrille		Offset Site Error:	0.00 us
urvey Progr Refere		DIPMETER Offse	et	Semi Major	Axis				Dista	nce			Offset Well Error:	0.00 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,800.00	2,295.77	2,324.82	2,295.77	64.63	62.88	-91.87	-544.75	-3,245.77	925.71	824.30	101.40	9.129		
4,900.00	2,293.44	2,322.49	2,293.44	67.05	62.78	-91.62	-544.75	-3,245.77	846.38	739.92	106.46	7.950		
5,000.00	2,291.11	2,320.16	2,291.11	69.48	62.67	-91.37	-544.75	-3,245.77	771.86	659.80	112.06	6.888		
5,100.00	2,288.78	2,317.83	2,288.78	71.91	62.56	-91.12	-544.75	-3,245.77	703.68	585.66	118.02	5.962		
5,200.00	2,286.45	2,315.50	2,286.45	74.34	62.45	-90.88	-544.75	-3,245.77	643.86	519.94	123.92	5.196		
5,300.00	2,284.12	2,313.16	2,284.12	76.77	62.34	-90.63	-544.75	-3,245.77	594.93	465.93	129.00	4.612		
5,400.00	2,281.79	2,310.83	2,281.79	79.20	62.23	-90.38	-544.75	-3,245.77	559.74	427.59	132.15	4.236		
5,500.00	2,279.46	2,308.50	2,279.46	81.64	62.12	-90.13	-544.75	-3,245.77	540.98	408.75	132.23	4.091 SF		
5,553.27	2,278.22	2,307.26	2,278.22	82.93	62.06	-90.00	-544.75	-3,245.77	538.36	407.54	130.81	4.115 CC,	ES	
5,600.00	2,277.13	2,306.17	2,277.13	84.07	62.01	-89.88	-544.75	-3,245.77	540.38	411.63	128.75	4.197		
5,700.00	2,274.80	2,303.84	2,274.80	86.51	61.90	-89.64	-544.75	-3,245.77	557.98	435.65	122.33	4.561		
5,800.00	2,272.47	2,301.51	2,272.47	88.95	61.80	-89.39	-544.75	-3,245.77	592.17	477.64	114.53	5.170		
5,900.00	2,270.14	2,299.18	2,270.14	91.39	61.69	-89.14	-544.75	-3,245.77	640.30	533.33	106.97	5.986		
6,000.00	2,267.81	2,296.85	2,267.81	93.83	61.58	-88.89	-544.75	-3,245.77	699.49	598.86	100.63	6.951		
6,100.00	2,265.48	2,294.52	2,265.48	96.27	61.47	-88.64	-544.75	-3,245.77	767.19	671.48	95.71	8.016		
6,200.00	2,263.14	2,292.19	2,263.14	98.71	61.36	-88.40	-544.75	-3,245.77	841.35	749.38	91.97	9.148		
6,300.00	2,260.81	2,289.86	2,260.81	101.15	61.25	-88.15	-544.75	-3,245.77	920.40	831.31	89.08	10.332		

TVD Reference:

MD Reference:

SILVERBACK EXPLORATION Company:

EDDY COUNTY, NM (NAD83) NMEZ GRID Project:

Greasewood 5 State Com Reference Site:

0.00 usft Site Error:

Greasewood 5 State Com 105H (South Slot2) Reference Well:

Well Error: 0.00 usft 5-105H Reference Wellbore Plan 1r1 Reference Design:

Local Co-ordinate Reference:

Well Greasewood 5 State Com 105H (South

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

North Reference: Minimum Curvature **Survey Calculation Method:** 2.00 sigma Output errors are at

Database:

Offset TVD Reference:

PRIME_EDM Reference Datum

Offset Site Error: 0.00 usft Offset Design Greasewood 5 State Com - Greasewood BD State 10 (Offset) Active - GW BD ST 10 - GW BD ST 10 A Survey Program: 410-INC-ONLY Offset Well Error: 0.00 usft Reference Offset Semi Major Axis Distance Vertical Measured Vertical Highside Offset Wellbore Centre Between Measured Reference Offset Between Minimum Separation Warning Depth Depth Depth Toolface Centres Separation Depth Factor +N/-S +E/-W (usft) (usft) (usft) (usft) (usft) (usft) (°) (usft) (usft) (usft) (usft) (usft) 5,200.00 2,286.45 2,315.52 2,286.45 74.34 60.90 90.82 820.07 -3,403.55 969.94 865.37 104.57 9.275 5,300.00 2,284.12 2,313.19 2,284.12 76.77 60.84 90.66 820.07 -3,403.55 921.64 810.49 111.14 8.292 5,400.00 2,281.79 2,310.86 2,281.79 79.20 60.79 90.50 820.07 -3,403.55 882.07 763.98 118.09 7.470 5.500.00 2 279 46 2 308 53 2 279 46 81 64 60 74 90.33 820.07 -3 403 55 852 44 727 39 125.06 6.816 5,600.00 2.277.13 2.306.20 2.277.13 84.07 60.69 90.17 820.07 -3,403.55 833.82 702.22 131.60 6.336 5,700.00 2,274.80 2,303.87 2,274.80 86.51 60.64 820.07 -3,403.55 826.95 689.72 137.23 6.026 90.01 5,707.07 2,274.63 2,303.70 2,274.63 86.68 60.63 90.00 820.07 -3,403.55 826.92 689.34 137.58 6.010 CC, ES 5,800.00 2,272.47 2,301.54 2,272.47 88.95 60.59 89.85 820.07 -3,403.55 832.13 690.58 141.55 5.879 SF 5,900.00 2,270.14 2,299.21 2,270.14 91.39 60.54 89.69 820.07 -3,403.55 849.12 704.79 144.33 5.883 6.000.00 2.267.81 2.296.88 2.267.81 93.83 60.48 89.53 820.07 -3.403.55 877.25 731.67 145.58 6.026 6,100.00 2,265.48 2,294.54 2,265.48 96.27 60.43 89.37 820.07 -3,403.55 915.49 770.00 145.49 6.293 6,200.00 2,263.14 2,292.21 2,263.14 98.71 60.38 89.20 820.07 -3,403.55 962.63 818.30 144.33 6.669

TVD Reference:

MD Reference:

Company: SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID Project:

Greasewood 5 State Com Reference Site:

0.00 usft Site Error:

Reference Well: Greasewood 5 State Com 105H (South Slot2)

Well Error: 0.00 usft 5-105H Reference Wellbore Reference Design: Plan 1r1

Local Co-ordinate Reference:

Well Greasewood 5 State Com 105H (South

Slot2)

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

North Reference: **Survey Calculation Method:** Minimum Curvature

Output errors are at

2.00 sigma PRIME_EDM Database:

Offset TVD Reference: Reference Datum

ffset De	sign	Grease	wood 5 St	ate Com - (Greasewo	ood BD State	e 8 (Offset) PA	- GW BD S	ST 8 - GW	BD ST 8 A	AsDrille		Offset Site Error:	0.00 us
rvey Prog Refer		-INC-ONLY Offse	et	Semi Major	Axis				Dista	nce		1	Offset Well Error:	0.00 us
easured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
6,100.00	2,265.48	2,294.64	2,265.48	96.27	108.67	-92.51	-477.60	-4,670.34	994.28	842.48	151.80	6.550		
6,200.00	2,263.14	2,292.31	2,263.14	98.71	108.50	-92.22	-477.60	-4,670.34	907.24	749.07	158.17	5.736		
6,300.00	2,260.81	2,289.98	2,260.81	101.15	108.33	-91.94	-477.60	-4,670.34	823.14	657.67	165.47	4.975		
6,400.00	2,258.48	2,287.65	2,258.48	103.59	108.16	-91.65	-477.60	-4,670.34	742.98	569.26	173.72	4.277		
6,500.00	2,256.15	2,285.32	2,256.15	106.03	107.99	-91.37	-477.60	-4,670.34	668.19	485.43	182.76	3.656		
6,600.00	2,253.82	2,282.99	2,253.82	108.48	107.82	-91.08	-477.60	-4,670.34	600.76	408.69	192.07	3.128		
6,700.00	2,251.49	2,280.65	2,251.49	110.92	107.65	-90.79	-477.60	-4,670.34	543.46	343.01	200.45	2.711		
6,800.00	2,249.16	2,278.32	2,249.16	113.37	107.48	-90.51	-477.60	-4,670.34	499.77	293.98	205.79	2.429		
6,900.00	2,246.83	2,275.99	2,246.83	115.81	107.31	-90.22	-477.60	-4,670.34	473.48	268.07	205.41	2.305 SF		
6,978.02	2,245.01	2,274.18	2,245.01	117.72	107.18	-90.00	-477.60	-4,670.34	467.01	267.03	199.98	2.335 CC, E	S	
7,000.00	2,244.50	2,273.66	2,244.50	118.26	107.14	-89.94	-477.60	-4,670.34	467.52	269.88	197.64	2.366		
7,100.00	2,242.17	2,271.33	2,242.17	120.70	106.97	-89.65	-477.60	-4,670.34	482.67	299.01	183.66	2.628		
7,200.00	2,239.84	2,269.00	2,239.84	123.15	106.80	-89.37	-477.60	-4,670.34	517.05	349.73	167.33	3.090		
7,300.00	2,237.51	2,266.67	2,237.51	125.60	106.63	-89.08	-477.60	-4,670.34	567.20	414.57	152.62	3.716		
7,400.00	2,235.18	2,264.34	2,235.18	128.04	106.46	-88.79	-477.60	-4,670.34	629.34	487.84	141.50	4.448		
7,500.00	2,232.85	2,262.01	2,232.85	130.49	106.29	-88.51	-477.60	-4,670.34	700.29	566.53	133.76	5.235		
7,600.00	2,230.52	2,259.68	2,230.52	132.94	106.12	-88.22	-477.60	-4,670.34	777.65	649.23	128.42	6.056		
7,700.00	2,228.19	2,257.35	2,228.19	135.39	105.95	-87.94	-477.60	-4,670.34	859.69	735.12	124.57	6.901		
7,800.00	2,225.86	2,255.02	2,225.86	137.84	105.78	-87.65	-477.60	-4,670.34	945.19	823.53	121.66	7.769		

TVD Reference:

MD Reference:

Company: SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID Project:

Greasewood 5 State Com Reference Site:

0.00 usft Site Error:

Reference Well: Greasewood 5 State Com 105H (South Slot2)

Well Error: 0.00 usft 5-105H Reference Wellbore Reference Design: Plan 1r1

Local Co-ordinate Reference:

Well Greasewood 5 State Com 105H (South

Slot2)

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

North Reference: **Survey Calculation Method:** Minimum Curvature 2.00 sigma Output errors are at

PRIME_EDM Database: Offset TVD Reference: Reference Datum

Offset Des	sign	Grease	wood 5 Sta	ate Com - (Greasewo	od BD State	e 9 (Offset) PA	- GW BD S	ST 9 - GW	BD ST 9 A	AsDrille		Offset Site Error:	0.00 usft
Survey Progr		INC-ONLY	.4	Cami Maian	Auta				Diete				Offset Well Error:	0.00 usft
Refere		Offse		Semi Major					Dista					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbord +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
6,500.00	2,256.15	2,288.21	2,258.94	106.03	62.07	90.98	844.85	-4,702.52	994.06	856.48	137.58	7.226		
6,600.00	2,253.82	2,285.81	2,256.54	108.48	62.02	90.82	844.86	-4,702.52	947.08	801.93	145.15	6.525		
6,700.00	2,251.49	2,283.41	2,254.14	110.92	61.96	90.66	844.87	-4,702.52	908.71	755.91	152.80	5.947		
6,800.00	2,249.16	2,281.01	2,251.75	113.37	61.90	90.49	844.87	-4,702.52	880.07	719.95	160.12	5.496		
6,900.00	2,246.83	2,278.62	2,249.35	115.81	61.85	90.33	844.88	-4,702.52	862.14	695.49	166.65	5.173		
7,000.00	2,244.50	2,276.22	2,246.95	118.26	61.79	90.17	844.89	-4,702.52	855.60	683.69	171.90	4.977		
7,006.26	2,244.35	2,276.07	2,246.80	118.41	61.79	90.16	844.89	-4,702.52	855.57	683.39	172.18	4.969 CC,	ES	
7,100.00	2,242.17	2,273.82	2,244.55	120.70	61.74	90.01	844.89	-4,702.52	860.69	685.16	175.53	4.903 SF		
7,200.00	2,239.84	2,271.42	2,242.15	123.15	61.68	89.85	844.90	-4,702.52	877.22	699.85	177.38	4.946		
7,300.00	2,237.51	2,269.02	2,239.75	125.60	61.62	89.69	844.91	-4,702.52	904.57	727.06	177.51	5.096		
7,400.00	2,235.18	2,266.62	2,237.35	128.04	61.57	89.53	844.91	-4,702.52	941.78	765.60	176.18	5.346		
7,500.00	2,232.85	2,264.22	2,234.95	130.49	61.51	89.37	844.92	-4,702.52	987.75	814.03	173.72	5.686		

TVD Reference:

MD Reference:

Database:

North Reference:

Output errors are at

Offset TVD Reference:

SILVERBACK EXPLORATION Company:

EDDY COUNTY, NM (NAD83) NMEZ GRID Project:

Greasewood 5 State Com Reference Site:

0.00 usft Site Error:

Greasewood 5 State Com 105H (South Slot2) Reference Well:

Well Error: 0.00 usft Reference Wellbore 5-105H Plan 1r1 Reference Design:

Local Co-ordinate Reference:

Well Greasewood 5 State Com 105H (South

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

Minimum Curvature **Survey Calculation Method:** 2.00 sigma PRIME_EDM

Reference Datum

Reference Depths are relative to 3566+20 @ 3586.00usft (planning)

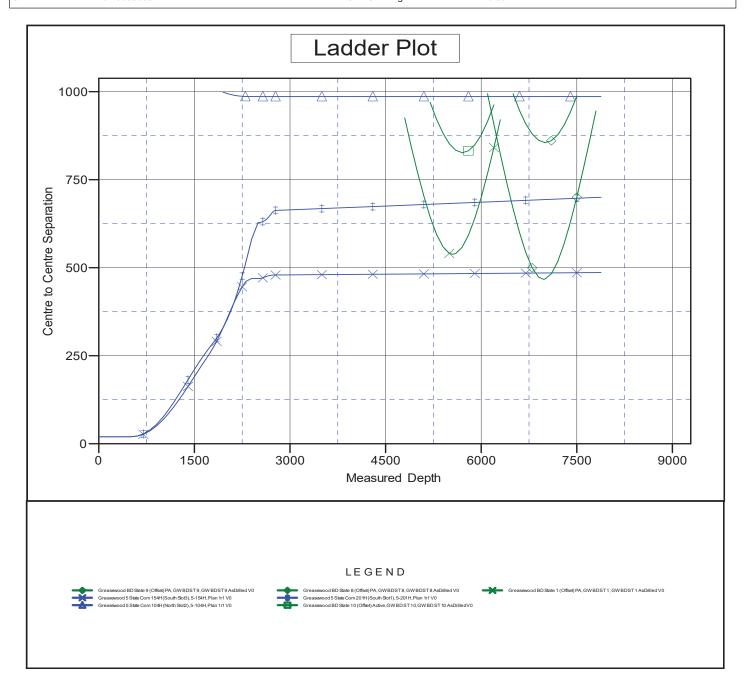
Offset Depths are relative to Offset Datum

Central Meridian is -104.3333333

Coordinates are relative to: Greasewood 5 State Com 105H (South Slot2)

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: -0.09°



TVD Reference:

MD Reference:

Database:

North Reference:

Output errors are at

Offset TVD Reference:

SILVERBACK EXPLORATION Company:

EDDY COUNTY, NM (NAD83) NMEZ GRID Project:

Reference Site: Greasewood 5 State Com

0.00 usft Site Error:

Greasewood 5 State Com 105H (South Slot2) Reference Well:

Well Error: 0.00 usft Reference Wellbore 5-105H Plan 1r1 Reference Design:

Local Co-ordinate Reference:

Well Greasewood 5 State Com 105H (South

3566+20 @ 3586.00usft (planning) 3566+20 @ 3586.00usft (planning)

Minimum Curvature **Survey Calculation Method:** 2.00 sigma PRIME_EDM Reference Datum

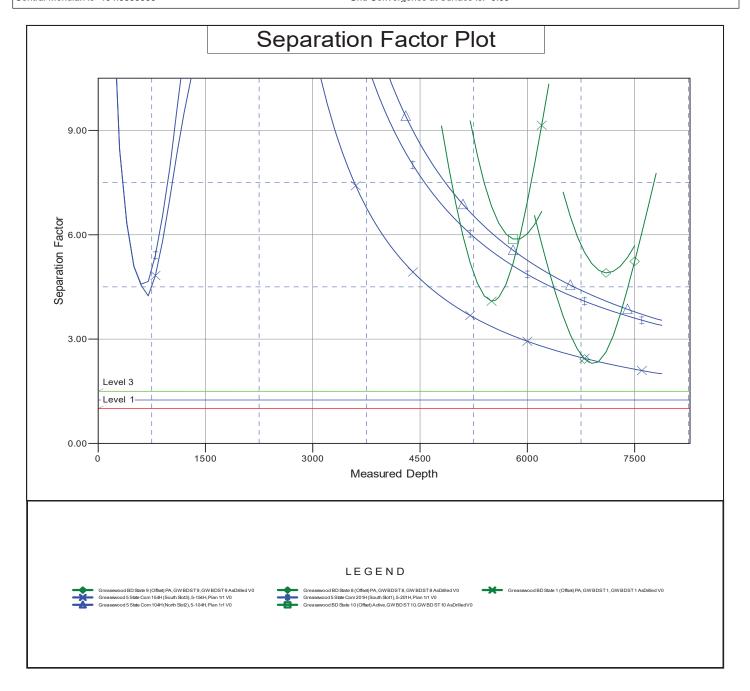
Reference Depths are relative to 3566+20 @ 3586.00usft (planning)

Offset Depths are relative to Offset Datum

Central Meridian is -104.3333333

Coordinates are relative to: Greasewood 5 State Com 105H (South Slot2) Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: -0.09°



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: Silverbac	k Operating II	, LLC	OGRID: _	330968	Date:	08 / 25 / 2023
II. Type: ☒ Original ☐	Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D(6)(b) NMAC □ C	Other.
If Other, please describe	:					
III. Well(s): Provide the be recompleted from a si	following infingle well pad	Formation for each to a connected to	new or recomple central delivery	eted well or set of v point.	vells proposed to	be drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See attached table						
proposed to be recomple Well Name	e: Provide the		tion for each ne	w or recompleted w	vell or set of wells Initial F	
See attached table						
VI. Separation Equipm VII. Operational Pract Subsection A through F VIII. Best Managemen during active and planne	ices: Attacof 19.15.27.8 t Practices:	h a complete descr NMAC.	iption of the act	ions Operator will t	take to comply wi	ith the requirements of

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

🗵 Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Ant	ticipated	Natural	Gas	Prod	uction:
---------	-----------	---------	-----	------	---------

API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line	Capacity.	The natural	gas gatherin	ng system 🗆	will □	will not	have capacity	to gather	100% of th	e anticipated	l natural gas
production	ı volume fr	om the well	prior to the	date of first	production	on.					

XIII.	Line Pressure.	Operator	does □ doe	s not anticip	ate that its e	xisting well	l(s) connecte	d to the sam	ne segment	t, or portion	n, of the
natura	al gas gathering	system(s) de	scribed above	e will contin	ue to meet a	inticipated i	ncreases in 1	ine pressure	caused by	the new v	vell(s).

Attach (Operator	'e nlan	to manage	production	in response	to the in	ncreased 1	ine pressure
 Attach	Oberator	s bran	to manage	production	i in response	to the n	ncreased	ime bressure

XIV. Co	onfidentiality: 🛚	☐ Operator ass	serts confidenti	ality pursuant to	Section	71-2-8	NMSA	1978 f	for the	information	provided in
Section 2	2 as provided in I	Paragraph (2) c	of Subsection D	of 19.15.27.9 N	MAC, an	d attache	es a full	descrip	otion of	f the specific	information
for which	h confidentiality	is asserted and	the basis for su	ich assertion.							

(i)

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🗵 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system: or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. □ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease: **(b)** power generation for grid; compression on lease; (c) liquids removal on lease; (d) (e) reinjection for underground storage; reinjection for temporary storage; **(f)** reinjection for enhanced oil recovery; (g) fuel cell production; and (h)

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

other alternative beneficial uses approved by the division.

- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Fatma Abdallah
Printed Name: Fatma Abdallah
Title: Regulatory Manager
E-mail Address: fabdallah@silverbackexp.com
Date: 08/25/2023
Phone: 210-585-3316
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

III. Wells

Well Name	<u>API</u>	ULSTR	<u>Footages</u>	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
GREASEWOOD 5 STATE COM 153H	30-15-53756	D-4-19S-25E	670' N 370' W	515	800	3000
GREASEWOOD 5 STATE COM 201H	30-15-53757	E-4-19S-25E	1809' N 370' W	515	800	3000
GREASEWOOD 5 STATE COM 154H	30-15-53758	E-4-19S-25E	1849' N 370' W	515	800	3000
GREASEWOOD 5 STATE COM 104H	30-15-53794	D-4-19S-25E	690' N 370' W	515	800	3000
GREASEWOOD 5 STATE COM 105H	30-15-53755	E-4-19S-25E	1829' N 370' E	515	800	3000

V. Anticipated Schedule

Well Name	<u>API</u>	Spud date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date_	First Production Date_
GREASEWOOD 5 STATE COM 153H	30-15-53756	2/29/24	3/10/24	4/25/24	5/30/24	5/30/24
GREASEWOOD 5 STATE COM 104H	30-15-53794	3/11/24	3/21/24	4/25/24	5/30/24	5/30/24
GREASEWOOD 5 STATE COM 201H	30-15-53757	3/23/24	4/1/24	5/4/24	6/1/24	6/1/24
GREASEWOOD 5 STATE COM 105H	30-15-53755	4/2/24	4/12/24	5/4/24	6/1/24	6/1/24
GREASEWOOD 5 STATE COM 154H	30-15-53758	4/13/24	4/23/24	5/4/24	6/1/24	6/1/24

Separation Equipment

Silverback Operating II (LLC) has sampled existing producing wells and performed laboratory testing to determine composition. Performance of existing producing wells was analyzed to predict expected production volumes including a low probably, high volume production case (approximately 75% higher than type curve or most likely amount of production). Production composition and the volumes were utilized as inputs to a process model which predicts relative amounts of gas, oil and water throughout the process. The high volume case was used to size equipment, piping and instrumentation. Equipment sizing is based on drop settlement and limits the amount of carry over to the gas phase.

Each well has a dedicated 3 phase separator and gas from that separator is taken directly to gas sales. Facility piping and pipeline were sized to allow peak volumes to flow with minimal pressure loss and deliver to midstream gatherer at an acceptable pressure. Water is conveyed directly to tankage.

Oil from 3 phase separators is comingled and conveyed to a heated separator for enhanced liquid-liquid separation and degassing. Vapors from the heater treater are routed to a Vapor Recovery Unit (VRU).

Oil and water storage tanks vapor outlets are common and utilize a closed vent vapor system to ensure all working & breathing and flashing losses are routed to the Vapor Recovery Unit (VRU) Site VRUs are sized to accommodate peak expected production volume. Flash volumes were estimated using the high volume case and process modeling software. Gas from the VRU outlet is combined with 1st stage separation gas and sent to sales.

Venting and Flaring

Silverback Operating II, LLC will ensure pipeline connectivity before producing hydrocarbons and will operate a closed vent vapor capture system that is designed to capture all associated and evolved gas during normal operation. Venting or flaring will only occur during start up and shut down, maintenance activities or equipment failure or upset. Silverback may utilize the following from list A-I of Section 3 for its operations to minimize flaring:

- a) Power generation on lease Natural gas driven gen set to produce power required to run supply well pad electrical loads
- c) Compression on lease gas lift or gas compression as required
- d) Liquids removal on lease gas pressure will be used to convey fluids as needed

Best Management Practices

Silverback utilizes automate engineering controls included in facility design to minimize venting and flaring. Additionally, operational best practices support minimization of flare and venting as described below.

If the main gas outlet becomes unavailable and pressure increases on the outlet sales line, produced gas will be routed directly to the facility flare. The facility control system will alert personnel to the need for maintenance and appropriate response to the temporary flaring event.

The facility design includes a closed vent vapor capture system to route flash or evolved from the heater treater and tanks to the Vapor Recovery Unit (VRU) Compressor. If the VRU requires planned or unplanned maintenance, vapors will automatically be routed to the facility flare.

For maintenance activities, Silverback will utilize the facility flare to blowdown equipment and piping whenever practical to minimize venting

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 257941

CONDITIONS

Operator:	OGRID:
Silverback Operating II, LLC	330968
19707 IH10 West, Suite 201	Action Number:
San Antonio, TX 78256	257941
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
ward.rikala	Original COA's still apply.	9/29/2023